# **DOCUMENT TITLE** Conflict Minerals Reporting Template **SHEET** 1 of 8

### **REVISION HISTORY**

PONS

17

A change in the first digit of the revision number (e.g., 1.0 to 2.0) signifies a set of major improvements have occurred which will likely include different data reporting requirements. Changes to the first or second decimal place (e.g., "2.01" to "2.02") indicate only minor changes have been made to the template which are not expected to result in substantial changes to the data being reported. The addition of a letter (e.g., "a", or "b", or "c") following the revision number indicate that only the standard smelter list has been updated from the prior version.

1	ORIGINATOR	RELEASE DATE	DESCRIPTION OF FUNCTIONAL CHANGE	UPDATES TO SMELTER LIST
2	Jared Connors, Intel Jared Connors,	July 19th, 2011 Aug 29th, 2012	New Release Major update to functionality including: addition of the known smelter list,	Neu
2.01	Intel Jared Connors, Intel	Dec 21st, 2012	addition of declaration scope including product tab, and added and modified multiple questions and / or their responses. List of changes to the template functionality: 1. Modified Smelter List tab to prevent smelter rows from wrapping text. This	New. 1. Added "CV DS Jaya Abadi" an alias to "PT Stanindo Inti Perkasa" 2. Added "Mentok" as an alias to "PT Tambang Timah"
			<ul> <li>was being caused by the hidden formula in column A which allows for a software vendor to easily grab the smelter IDs.</li> <li>2. Changed protection settings on the Smelter List tab to allow users to delete rows. This allows users to delete rows with incorrect entries within the smelter tab. Ensured that columns could not be mistakenly deleted in the process.</li> </ul>	<ol> <li>Corrected spelling of "Duoluoshan" id # 3CHN001</li> <li>Corrected spelling of "Mitsubishi Materials Corporation" id # 1JPN039</li> <li>Changed "Gejiu Non-ferrous" to its proper name "Geiju Non-Ferrous Metal Processing Co. Ltd."</li> <li>Changed "Mitsubishi Material" to its proper name "Mitsubishi Materials Corporation"</li> <li>Changed "Niotan" to "Kemet Blue Powder"</li> <li>Added "Nihon Material Co. LTD" as a gold refiner</li> <li>Added "Aide Chemical Industriae Co. Ltd." as a cold refiner</li> <li>Added "Aide Chemical Industriae Co. Ltd." as a gold refiner</li> <li>Added "Sabin" as a gold refiner</li> <li>Added "Sabin" as a gold refiner</li> <li>Added "United Precious Metal Refining Inc." as a gold refiner</li> <li>Added "Vokohama Metal Co Ltd" as a gold refiner</li> <li>Added "Vokohama Metal Co Ltd" as a gold refiner</li> <li>Added "Conghua Tantalum and Niobium Smeltry" as a tantalum refiner</li> <li>Added "Aintalite Resources" as a refinery</li> <li>Added "Minmetals Ganzhou Tin Co. Ltd." as a tin refinery</li> <li>Updated "ATI Metalworking Products" to its proper full name "China Minmetals Nonferrous Metals Co.</li> <li>Removed "Ganzhou Nonferrous Metals Smelting Co Ltd." as a smelter</li> <li>Removed "Sichuan Metals &amp; Materials Imp &amp; Exp Co as a tungsten smelter</li> </ol>
2.02	Jared Connors, Intel	March 29th, 2013	<ol> <li>Added new selection to the metals dropdown lists of smelter list tab "Smelter not yet identified"</li> <li>Moved "smelter not listed" to the bottom of each metals dropdown list</li> <li>Fixed error in Checker sheet to eliminate display of text "one or more smelters have been added to smelter list" when rows are deleted</li> <li>Rewrite of T&amp;Cs</li> <li>Adding Italian translation</li> <li>Allow for deletion of rows in Smelter List tab</li> <li>Inserted additional rows for data entry on the Smelter List tab up to 2,500 rows</li> <li>Removed language selection from individual tabs, all controlled on Declaration tab</li> <li>Updated template to prevent users from adding tabs to the worksheet</li> <li>Added statement at the top of the revision history tab clarifying purpose of .0x revision updates</li> </ol>	<ul> <li>25. Added "Hunan Chenzhou Mining Group Co" as a tungsten smelter</li> <li>26. Added "Japan New Metals Co Ltd" as a tungsten smelter</li> <li>1. Added the following aliases to Ohio Precious Metals "OPM Metals", "USPM", "United States Precious Metals"</li> <li>2. Added "ALMT" as tungsten smelter</li> <li>3. Added "Suzhou Xingrui Noble" as gold smelter</li> <li>4. Added "Shangdong Zhaojin Group" as an alias of "Shandong Zhaojin Gold &amp; Silver Refinery Co., Ltd"</li> <li>5. Added "Shandong Zhaoyuan Gold Argentine refining company limited" as an alias of "Zhongyuan Gold Smelter of Zhongjin Gold Corporation"</li> <li>6. Added "SEMPSA" as an alias for "SEMPSA Joyeria Plateria SA"</li> <li>7. Added "Umicore Brazil Ltd" as an alias for "Umicore Brasil Ltda"</li> <li>8. Added "Pan Pacific Copper Co., LTD." as a gold smelter</li> <li>11. Corrected spelling of "juijiang Tanbre" to "JiuJiang Tambre Co. Ltd."</li> <li>12. Added "PT Tinindo Internusa" as alias of "PT Tinindo Inter Nusa"</li> <li>16. Added "PT Timindo Internusa" as alias of "PT Tinindo Inter Nusa"</li> <li>17. Added "PT Bellitin Makmur Lestari" and "BML" as alias of "PT BilliTin Makmur Lestari"</li> <li>18. Added "PT Timah (Persero) TBK" and "Bahka Tim" as alias of "PT BilliTin Makmur Lestari"</li> <li>19. Added "GEJIU ZILI MINING&amp;SMELTING CO., LTD." as alias of "PT Tambang Timah"</li> <li>21. Added "Linwu Xianggui" as a tin smelter</li> <li>23. Added "Linwu Xianggui" as a tin smelter</li> <li>24. Added "PT Tommy Utama" as tin smelter</li> <li>25. Added "PT Tommy Utama" as tin smelter</li> <li>26. Added "PT Tommy Utama" as tin smelter</li> <li>27. Added "HT Daya Abadi" as tin smelter</li> <li>28. Added "PT Tommy Utama" as tin smelter</li> <li>29. Added "PT Tambanga Tin Mustry" as tin smelter</li> <li>20. Added "PT Tommy Utama" as tin smelter</li> <li>20. Added "PT Tommy Utama" as tin smelter</li> <li>20. Added "PT Karimun Mining" as tin smelter</li> <li>20. Added "PT Karimun Mining" as tin smelter</li> <li>20. Added "PT Karimun Mining" as tin smelter<!--</td--></li></ul>
				<ul> <li>33. Added "Daejin Indus Co. Ltd" as gold smelter</li> <li>34. Added "DaeryongENC" as gold smelter</li> <li>35. Added "Do Sung Corporation" as gold smelter</li> <li>36. Added "Hwasung CJ Co. Ltd" as gold smelter</li> <li>37. Added "Korea Metal" as gold smelter</li> </ul>
2.03 2.03a	Akimasa Yamakawa, JEITA / John Plyler, BlackBerry John Plyler, BlackBerry	July 12th, 2013 July 25th, 2013	<ol> <li>Resolved Excel 2003 incompatibility with programming for multiple languages.</li> <li>Minor corrections to row number references in the instructions.</li> <li>Added translation on checker sheet for the Column Name "Hyperlink to Source"</li> <li>Corrected Japanese translation of "authorized representative" and "representative" on Declaration worksheet.</li> <li>Adjusted row spacing of misc cells to allow for different lengths of translated text and comments.</li> <li>Removed the symbols for the metals on the standard smelter list (e.g., "Sn").</li> <li>Deleted text "If no for all metals, you are done with this survey." from question 1 on the Declaration worksheet.</li> </ol>	<ol> <li>Added "Fujian Jinxin Tungsten Co., Ltd." as tungsten refiner</li> <li>Added "Dayu Weiliang Tungsten Co., Ltd." as tungsten refiner</li> <li>Added "Xinhai Rendan Shaoguan Tungsten Co., Ltd." as tungsten refiner</li> <li>Added "Hunan Chun-Chang Nonferrous Smelting &amp; Concentrating Co., Ltd." as tungsten refiner</li> <li>Added "Hunan Chun-Chang Nonferrous Metals Co., Ltd." as tungsten refiner</li> <li>Added "Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd." as tungsten refiner</li> <li>Corrected the spelling of "Allydne" to "Alldyne"</li> <li>Corrected the spelling of "Allydne Powder Technologies" to "Alldyne Powder Technologies"</li> <li>Corrected the spelling of "Korea Metal" to "Korea Metal Co. Ltd"</li> <li>Ardred "Taki Chemicals" as tantalum smelter</li> <li>Added "Taki Chemicals" as tantalum smelter</li> <li>Added "Taki Chemicals" as tantalum smelter</li> <li>Corrected naming inconsistency of "Ohio Precious Metals LLC." on standard smelter list and alias table.</li> <li>Corrected naming inconsistency of "The Refinery of Shandong Gold Mining Co., Ltd" on standard smelter list and alias table.</li> <li>Added "King-Tan Tantalum Industry Ltd" as tantalum smelter</li> <li>Added "KooperMetal" as an alias of "Coopersanta"</li> <li>Corrected the spelling of "Malaysia Smelting Corp" to "Malaysia Smelting Corporation (MSC)"</li> <li>Corrected the spelling of "Malaysia Smelting Corp" to "Propriation"</li> <li>Added "Ketapang" as an alias of "PT Tambang Timah" to "PT Timah"</li> <li>Added "Ketapang" as an alias of "PT Tambang Timah"</li> <li>Corrected the Smelter ID of Cooper Santa from "2IDN063" to "2BRA063"</li> <li>Added "Tenix Metals" as in alias of "PT Tambang Timah"</li> <li>Added "CooperMetal" as an alias of "Coopersanta"</li> <li>Corrected the Smelling of "ALMT" to "A.L.M.T. Corp."</li> <li>Added "A.L.M.T. Tungsten Corp," "Allied Material Corp", and "ALMT" as aliases of "A.L.M.T. Corp."</li> <li>A</li></ol>
3.00	Akimasa Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Workgroup	April 9th, 2014	Major update to synchronize the CFSI CMRT with the data fields in the newly published IPC-1755 Standard. Changes include: 1. Addition of new company information fields. 2. Two additional due diligence questions and removal of one. 3. Minor changes to question text throughout. 4. Expansion of instructions and definitions. 5. Updated translations of all modified text.	4. Changed alias "Wolfram" for "Wolfram Company CJSC" to "Wolfram [Russia]" 5. Added "Vonfram [Austria]" as an alias of "Wolfram Bergbau und Hütten AG" 6. Added "Kennametal Inc." as a tungsten refiner Added the following gold refiners: 1. Bauer Walser AG 2. C. Hafter GmbH + Co. KG 3. China National Gold Group Corporation 4. Colt Refining 5. Daye Non-Ferrous Metals Mining Ltd. 8. Garsus Seemine Material Hi-Tech Co Ltd 6. Garsus Seemine Material Hi-Tech Co Ltd 7. Eco-System Recycling Co., Ltd. 8. Garsus Seemine Material Hi-Tech Co Ltd 7. Eco-System Recycling Co., Ltd. 8. Garsus Seemine Material Hi-Tech Co Ltd 7. Hunan Cherzhou Mining Industry Group 12. Kennecott Utah Copper LLC 13. Lingbao Jinyuan Tonghu Refinery Co., Ltd. 14. Luoyang Zijin Yinhui Metal Smero Ltd. 15. Metalor Technologies (Singaporo) PLc. Ltd. 16. Ohura Precious Metal Industry Co., Ltd 17. Pengial Penggang Gold Industry Co Ltd 18. So Accurate Group, Inc. 19. Tonnition confermise Metals (Group Co. Ltd. 12. Yunan Confermise Metals (Group Co. Ltd. 12. Yunan Confermise Metals (Group Co. Ltd. 13. Hengyang King Xing Lifeng New Materials Co., LtD 14. Added the following tantalum smellers: 1. Changsha South Tantalum Noibuim Co. Ltd 2. Guangdong Zhiyuan New Material Co., LtD 2. Hengyang King Xing Lifeng New Materials Co., LtD 3. Hengyang King Xing Lifeng New Materials Co., LtD 4. Metallurgical Products Indie (PK.) Ltd. 5. Minerajšo Taboca S.A. 6. Shanghai Jiangi Metalis & Co. Ltd Added the following tungsten refiners: 1. China Rare Metal Materials Co., Ltd. 5. Jangxi Kinsheng Tungsten (PM.) Ltd. 5. Jangxi Kinsheng Tungsten Indistry Co., Ltd. 5. Jangxi Kinsheng Tungsten Indistry Co., Ltd. 7. Jangxi Gangeu Notel 8. Jangxi Ghomes Indistry Co., Ltd. 7. Jangxi Gangeu Notel 8. Gardia Materials Co., Ltd. 7. Jangxi Yansheng Tungsten Co., Ltd. 7. Jangxi Gangeu Notel 8. Gardia Gardia Sa Jingsten Gangeu Sa Ji
				<ul> <li>16. PT Seirama Tin investment</li> <li>17. PT Sumber Jaya Indah</li> <li>18. PT Timah Nusantara</li> <li>10. DT Tommy Litama</li> <li>Removed the following as tungsten refiners:</li> <li>1. China Minmetals Nonferrous Metals Co Ltd</li> <li>2. Ganzhou Grand Sea W &amp; Mo Group Co Ltd</li> <li>Changed numerous Standard Smelter Names, including:</li> <li>1. "Pan Pacific Copper Co. LTD" to "JX Nippon Mining &amp; Metals Co., Ltd"</li> <li>2. "Xstrata Canada Corporation" to "CCR Refinery – Glencore Canada Corporation"</li> <li>3. "PT Refined Banka Tin" to "PT Refined Bangka Tin"</li> <li>4. "ATI Tungsten Materials" to "Kennametal Huntsville"</li> <li>5. "Jiangxi Rare Earth &amp; Rare Metals Tungsten Group Corp" to "Ganzhou Non-ferrous Metals Smelting Co., Ltd."</li> <li>6. "Kennametal Inc." to "Kennametal Fallon"</li> </ul>
3.01	Akimasa Yamakawa, JETA and	May 30th, 2014	<ol> <li>Removed the ability to overwrite the "Declaration Scope or Class" field. Users are restricted to only use the drop-down options.</li> <li>Addressed issue with Checker incorrectly showing "Description of Scope" as</li> </ol>	<ul> <li>17. PT Sumber Jaya Indah</li> <li>18. PT Timah Nusantara</li> <li>19. PT Tommy Litama Removed the following as tungsten refiners:</li> <li>1. China Minmetals Nonferrous Metals Co Ltd</li> <li>2. Ganzhou Grand Sea W &amp; Mo Group Co Ltd</li> <li>Changed numerous Standard Smelter Names, including:</li> <li>1. "Pan Pacific Copper Co. LTD" to "JX Nippon Mining &amp; Metals Co., Ltd"</li> <li>2. "Xstrata Canada Corporation" to "CCR Refinery – Glencore Canada Corporation"</li> <li>3. "PT Refined Banka Tin" to "PT Refined Bangka Tin"</li> <li>4. "ATI Tungsten Materials" to "Kennametal Huntsville"</li> <li>5. "Jiangxi Rare Earth &amp; Rare Metals Tungsten Group Corp" to "Ganzhou Non-ferrous Metals Smelting Co., Ltd."</li> <li>6. "Kennametal Inc." to "Kennametal Fallon"</li> <li>7. "Chaozhou Xianglu Tungsten Industry Co Ltd" to "Guangdong Xianglu Tungsten Industry Co., Ltd."</li> <li>1. Added the tin smelter "Melt Metais e Ligas S/A"</li> <li>2. Added the tungsten refiner "Vietnam Youngsun Tungsten Industry Co., Ltd"</li> </ul>
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3.02	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Workgroup John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection Workgroup		<ul> <li>are restricted to only use the drop-down options.</li> <li>Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope.</li> <li>Programmed Checker to show missing data when response to question B is "Yes", unless a url is entered the corresponding "Comments" field.</li> <li>Revisions to the German language translation throughout.</li> <li>Correction of the Japanese language translation for Question 4 on the Declaration worksheet.</li> </ul>	<ul> <li>17. PT Sumber Jaya Indah</li> <li>18. PT Timah Nusantara</li> <li>19. PT Tomuv I Hama</li> <li>Removed the following as tungsten refiners:</li> <li>1. China Minmetals Nonferrous Metals Co Ltd</li> <li>2. Ganzhou Grand Sea W &amp; Mo Group Co Ltd</li> <li>Changed numerous Standard Smelter Names, including:</li> <li>1. "Pan Pacific Copper Co. LTD" to "JX Nippon Mining &amp; Metals Co., Ltd"</li> <li>2. "Xstrata Canada Corporation" to "CCR Refinery – Glencore Canada Corporation"</li> <li>3. "PT Refined Banka Tin" to "PT Refined Bangka Tin"</li> <li>4. "ATI Tungsten Materials" to "Kennametal Huntsville"</li> <li>5. "Jiangxi Rare Earth &amp; Rare Metals Tungsten Group Corp" to "Ganzhou Non-ferrous Metals Smelting Co., Ltd."</li> <li>6. "Kennametal Inc.," to "Kennametal Fallon"</li> <li>7. "Chaozhou Xianglu Tungsten Industry Co Ltd" to "Guangdong Xianglu Tungsten Industry Co., Ltd."</li> <li>Changed numerous "Alias" names of smelters and refiners.</li> <li>1. Added the tin smelter "Melt Metals e Ligas S/A"</li> <li>2. Added the tungsten refiner "Vietnam Youngsun Tungsten Industry Co., Ltd"</li> <li>3. Corrected the name of tin smelter "PT Timah" to "PT Timah (Persero), Tbk"</li> </ul> This version incorporates numerous changes to the smelter list as reflected in the Standard Smelter List is available at: http://www.conflictfreesourcing.org. This version incorporates numerous changes to the smelter list as reflected in the Standard Smelter List is available at: http://www.conflictfreesourcing.org.
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3.02 4.0 4.01	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Workgroup John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection Workgroup	Nov 7th, 2014 Apr 30th, 2015	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a url is entered the corresponding "Comments" field.  1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet.  Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text.	<ul> <li>17. PT Sumber Jaya Indah</li> <li>18. PT Timah Nusantara</li> <li>19. DT Townu I Hama</li> <li>Removed the following as tungsten refiners:</li> <li>1. China Minmetals Nonferrous Metals Co Ltd</li> <li>2. Ganzhou Grand Sea W &amp; Mo Group Co Ltd</li> <li>Changed numerous Standard Smelter Names, including:</li> <li>1. "Pan Pacific Copper Co. LTD" to "JX Nippon Mining &amp; Metals Co., Ltd"</li> <li>2. "Xstrata Canada Corporation" to "CCR Refinery – Glencore Canada Corporation"</li> <li>3. "PT Refined Banka Tin" to "PT Refined Bangka Tin"</li> <li>4. "ATI Tungsten Materials" to "Kennametal Huntsville"</li> <li>5. "Jiangxi Rare Earth &amp; Rare Metals Tungsten Group Corp" to "Ganzhou Non-ferrous Metals Smelting Co., Ltd."</li> <li>6. "Kennametal Inc." to "Kennametal Fallon"</li> <li>7. "Chaozhou Xianglu Tungsten Industry Co Ltd" to "Guangdong Xianglu Tungsten Industry Co., Ltd."</li> <li>Changed numerous "Alias" names of smelters and refiners.</li> <li>1. Added the tin smelter "Met Metais e Ligas S/A"</li> <li>2. Added the tungsten refiner "Vieth mar Youngsun Tungsten Industry Co., Ltd"</li> <li>3. Corrected the name of tin smelter "PT Timah" to "PT Timah (Persero), Tbk"</li> <li>This version incorporates numerous changes to the smelter list as reflected in the Standard Smelter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates numerous changes to the smelter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates numerous changes to the smelter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates a few changes to the smelter list as reflected in the Standard Smelter List as of April 17, 2015. The latest version of the Standard Smelter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates a few changes to the smelter list as reflected in the Standard Smelter List as of June 12, 2015. The latest version of the Standard Smelter List is available at: http://www</li></ul>
3.02 4.0 4.01 4.01a	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Workgroup John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup	Nov 7th, 2014 Apr 30th, 2015 June 12th, 2015	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a url is entered the corresponding "Comments" field.  1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet.  Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text.  Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs.  No functional change. Elemetal CID corrected to read CID001322.	17. PT Sumber Jaya Indah         18. PT Timah Nusantara         19. Torman, Jimma         Removed the following as tungsten refiners:         1. China Minnetalas Nonferous Metals Co Ltd         2. Ganzhou Grand Sea W & Mo Group Co Ltd         Changed numerous Standard Smelter Names, including:         1. "Pan Pacific Copper Co. LTD' to "XN Nippon Mining & Metals Co., Ltd"         2. "Xstrata Canada Corporation" to "CCR Refinery – Glencore Canada Corporation"         3. "PT Refined Banka Tin' to "PT Refined Bangka Tin"         4. "ATI Tungsten Materials' to "Kennametal Huntsville"         5. Jiangxi Rare Earth & Rare Metals Tungsten Group Corp" to "Ganzhou Non-ferrous Metals Smelting Co., Ltd."         6. "Kennametal Inc." to "Kennametal Fallon"         7. "Chaozhou Xianglu Tungsten Industry Co Ltd" to "Guangdong Xianglu Tungsten Industry Co., Ltd."         18. Added the tungsten refiner "Vietnam Youngsun Tungsten Industry Co., Ltd"         2. Added the tungsten refiner "Vietnam Youngsun Tungsten Industry Co., Ltd"         3. Corrected the name of tin smelter "Juzhou China Tin" to "China Tin Group Co., Ltd."         4. Corrected the name of tin smelter "PT Timah" to "PT Timah (Persero), Tbk'         This version incorporates numerous changes to the smelter list as reflected in the Standard Smelter List is available at: http://www.conflictfreesourcing.org.         This version incorporates a few changes to the smelter list as reflected in the Standard Smelter List as of June 12, 2015. The latest ve
3.02 4.0 4.01 4.01a	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Workgroup John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup	Nov 7th, 2014 Apr 30th, 2015 June 12th, 2015 August 6th, 2015	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a url is entered the corresponding "Comments" field.  1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet.  Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text.  Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs.  No functional change. Elemetal CID corrected to read CID001322.	17. PT Sumber Jaya Indah         18. PT Tima Nusantara         19. DT Tommu Literara         10. DT Tommu Literara         11. Pan Pacific Copper Co. LTD' to "X Nippon Mining & Metals Co. Ltd"         2. Asstrata Canada Corporation" to "CCR Refinery – Glencore Canada Corporation"         3. "TT Refined Banka Tin" to "DT Refined Bangka Tin"         4. "ATT Tungsten Materials" to "Kennametal Huntsville"         5. "Jiangxi Rare Earth & Rare Metals Tungsten Group Corp" to "Ganzhou Non-ferrous Metals Smelting Co., Ltd."         6. "Kennametal Inc." to "Kennametal Fallon"         7. "Chaozhou Xianglu Tungsten Industry Co Ltd" to "Guangdong Xianglu Tungsten Industry Co., Ltd."         2. Added the tin smelter "Melt Metais e Ligas S/A"         3. Addded the tungsten refiner Vietama Youngsun Tungsten Industry Co., Ltd."         3. Corrected the name of tin smelter "Tunh" to "PT Timah (Persero), Tbk."         This version incorporates numerous changes to the smelter list as reflected in the Standard Smelter List as of November 7, 2014. The latest version of the Standard Smelter List as of April 17, 2015. The latest version of the Standard Smelter List is available at: http://www.conflictfreesourcing.org.         This version incorporates a few changes to the smelter list as reflected in the Standard Smelter List as of April 17, 2015. The latest version of the Standard Smelter List is ava
3.02 4.0 4.01 4.01a 4.01b 4.10	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup	Nov 7th, 2014 Apr 30th, 2015 June 12th, 2015 August 6th, 2015 November 16th, 2015	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a url is entered the corresponding "Comments" field. 1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet. Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2.Expansion of instructions and definitions. 3. Updated translations of all modified text. Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs. No functional change. Elemetal CID corrected to read CID001322. No functional change. 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and claffications in the instructions and definitions b. Smelter List Tab: Inclusion of drop down menu for smelter ID that triggers auto-population of columns B to J 3. Translation improvements and addition of Turkish language 4. Updates to the Smelter Reference List and Standard Smelter List a. Updated lists and corrections b. ASCII character set alignment 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and claffications in the instructions and definitions b. Smelter List Tab: Inclusion of drop down menu for smelter ID that triggers auto-populated insta and corrections b. ASCII character set alignment 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and claffications in the instructio	<ul> <li>17. PT Sumber Jaya Indah</li> <li>18. PT Timah Nusantara</li> <li>19. OT Transmu Hawa</li> <li>Removed the following as tungsten refiners:</li> <li>1. China Mininetais Konferrous Metals Co. Ltd</li> <li>2. Garzhou Grand Sca W &amp; Mo Group Co. Ltd With Counce Co. Ltd Changed numerous Standard Smetter Names, including:</li> <li>1. "Pan Pacific Copper Co. LTD" to "X Nippon Mining &amp; Metals Co., Ltd"</li> <li>2. "Starta Canada Corporation" to "CCR Refinery - Gencore Canada Corporation"</li> <li>3. PT Refined Banka Tin" to "PT Refined Banks Tin"</li> <li>4. "ATI Tungsten Materials" to "Kennametal Huntsville"</li> <li>5. "Jiangxi Rare Earth &amp; Rare Metals Tungsten Group Corp" to "Canzhou Non-ferrous Metals Smetter Industry Co., Ltd."</li> <li>6. "Kennametal Inc." to "Kennametal Fallon"</li> <li>7. "Chaozhou Xianglu Tungsten Industry Co Ltd" to "Guangdong Xianglu Tungsten Industry Co., Ltd."</li> <li>1. Added the tim smetter "Met Metais e Ligas SA"</li> <li>2. Added the tungsten refiner "Vietnam Youngsun Tungsten Industry Co., Ltd."</li> <li>3. Corrected the name of tin smetter "PT Timah" to "PT Timah (Persero), Tbk"</li> <li>This version Incorporates numerous changes to the smetter list as reflected in the Standard Smetter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates numerous changes to the smetter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates a few changes to the smetter list as reflected in the Standard Smetter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates a few changes to the smetter list as reflected in the Standard Smetter List as of April 17. 2015. The latest version of the Standard Smetter List is available at: http://www.conflictfreesourcing.org.</li> <li>This version incorporates a few changes to the smetter list as reflected in the Standard Smetter List as of April 17. 2015. The latest version of the Standard Smetter List is available at: http://www.conflictfr</li></ul>
3.02 4.0 4.01 4.01a 4.01b	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup CFSI Due Diligence Data Collection Workgroup	Nov 7th, 2014 Apr 30th, 2015 June 12th, 2015 August 6th, 2015 November 16th, 2015 May 12, 2017	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a url is entered the corresponding "Comments" field. 1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet. Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2.Expansion of instructions and definitions. 3. Updated translations of all modified text. Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs. No functional change. Elemetal CID corrected to read CID001322. No functional change. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clarifications in the instructions and definitions b. Smelter List Tab: Re-introduction of "smelter not yet identified" c. Smelter List Tab: Review and didition of Turkish language 4. Updates to the Smelter Reference List and Standard Smelter List a. Updated lists and corrections b. ASCII character set alignment 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clarifications in the instructions and definitions b. ASCII character set alignment b. Update to ISO short names for countries	
3.02 4.01 4.01a 4.01b 4.10 4.20 5.01	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection WorkgroupCFSI CMRT TeamCFSI CMRT TeamCFSI CMRT Team	Nov 7th, 2014 Nov 7th, 2014 Apr 30th, 2015 June 12th, 2015 August 6th, 2015 November 16th, 2015 May 12, 2017 May 12, 2017 June 21, 2017	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a unit is entered the corresponding "Comments" field. 1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet. Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CPSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text. Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs. No functional change. Elemetal CID corrected to read CID001322. 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clarifications in the instructions and definitions b. Smelter List Tab: Re-introduction of "smelter on yet identified" c. Smelter List Tab: Re-introduction of smelter on yet identified" 3. Translation improvements and addition of Turkish language 4. Updates to the Smelter Reference List and Standard Smelter List 4. Update is clarifications in the instructions and definitions b. ASCII character set alignment 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clarifications in the instructions and definitions b. Update to	<ul> <li>11. PT Sumbar Jaya Indah</li> <li>12. PT Timuh Juana</li> <li>13. PT Timuh Juana</li> <li>14. PT Timuh Juana</li> <li>15. PT Fifted Sanga Turitation ("To "CKR Refinesy - Gencore Canada Corporation" 3.</li> <li>14. PT Timuh Juana</li> <li>14. PT Timuh Juana</li> <li>15. PT Fifted Sanga Turitation ("To "Support Timuh Corporation" 10.</li> <li>15. PT Fifted Sanga Turitation ("To "Circular to "Cuangdong Xianglu Tungsten Industry Co., Ltd."</li> <li>14. Added the tim smelter "PH Timuh Tungsten Industry Co., Ltd."</li> <li>15. Added the tim smelter "PH Timuh Tungsten Industry Co., Ltd."</li> <li>16. Corrected the name of the smelter "PT Timuh ("Densero), ToX."</li> <li>17. Interport Juana</li> <li>17. Bit version incorporates numerous changes to the smelter list as reflected in the Standard Smeler List as of AN 2015. The latest wasion of the Standard Smeler List is available at: http://www.conflictfreesourcing.org.</li> <li>16. Interport 2015. The latest wasion of the Standard Smeler List is available at: http://www.conflictfreesourcing.org.</li> <li>17. Phi Amedia Corporates a few changes to the smeller list as reflected in the Standard Smeller List is available at: http://www.conflictfreesourcing.org.</li> <li>17. Interport 2015. The latest wasion of the Standard Smeller List is available at: http://www.conflictfreesourcing.org.</li> <li>18. Added the turnesourcing.org.</li> <li>19. Added the turnesourcing org.</li> <li>19. Added the turnesourcing org.</li> <li>11. Standard Smeller List as mellected in the Standard Smeller List as of Noure</li></ul>
3.02 4.01 4.01a 4.01b 4.20 5.0	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection WorkgroupCFSI CMRT TeamCFSI CMRT Team	Nov 7th, 2014 Nov 7th, 2014 Apr 30th, 2015 August 6th, 2015 November 16th, 2015 May 12, 2017 May 12, 2017 May 12, 2017 June 21, 2017	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a uri is entered the corresponding "Comments" field. 1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet. Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. May rupdate to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text. Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs. No functional change. Elemetal CID corrected to read CID001322. No functional change. 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clafifications in the instructions and definitions b. Smelter List Tab: Re-induction of smelter not yet identified" c. smelter List Tab: Re-induction of smelter not yet identified" c. Smelter List Tab: Re-induction of smelter not yet identified" c. Smelter List Tab: Re-induction of smelter not yet identified" c. Smelter List and clafifications in the instructions and definitions b. Additions and clafifications in the instructions and definitions b. Additions and clafifications in the instructions and definitions b. Additions and clafifications in the instructions and definitions b. Jupdate to ISO short names for countries 3. Translation improvements 4. Updates to the Smelter Reference List and Standard Smelter List 1. Corrections to all bugs and errors 2	<ul> <li>17. PT Sumbar Jaya Indah</li> <li>18. PT Timah Nusarrian</li> <li>19. PT Timah Nusarr</li></ul>
3.02 4.01 4.01 4.01a 4.01b 4.10 4.20 5.0	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection WorkgroupCFSI CMRT TeamCFSI CMRT TeamCFSI CMRT TeamCFSI CMRT Team	Nov 7th, 2014 Nov 7th, 2014 Apr 30th, 2015 June 12th, 2015 August 6th, 2015 November 16th, 2015 May 12, 2017 May 12, 2017 June 21, 2017	are restricted to only use the drop-down options. 2. Addressed issue with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a uri is entered the corresponding "Comments" field. 1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet. Replaced the Standard Smelter Names tab with the Smelter Reference List tab, displaying common alternate names for smelters as well as location information. May oughat to synchronize the CFSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text. Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs. No functional change. 1. Corrections to all bugs and errors. 2. Enhancements which do not conflict with IPC-1755 a. Additions and clanifications in the instructions and definitions b. Smelter List Tab: Re-introduction of Smelter not yet identified" 5. Smelter List Tab: Inclusion of dorp down mue for smelter ID that triggers auto-population of columns B to J 3. Translation declanifications b. ASCII character set alignment 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clanifications in the instructions and definitions b. ASCII character set alignment 1. Corrections to all bugs and errors 2. Conformance to IPC-1755 in the wording of the following questions: Q. 1, Q. 2, C. 5, A, F. 1, (fromerly ); menoal of former question 4. Update to ISO short names for countries 3. Translation column R to the smelter list 4. Odditions and clanifications in the instructions and definitions b. Update t	<ul> <li>17. PT Sumbar Jaya Indah</li> <li>18. PT Timah Namarian</li> <li>19. PT Timah Namarian</li> <li>19. PT Timah Namarian</li> <li>19. PT Timah Namarian</li> <li>10. Chana Mennet Norderosa Media Co Lid</li> <li>21. Ganzhan Canada Sanadard Smelter Namaes, Including:</li> <li>11. "Pan Pacific Dopper Co. 1170 to 71 Reprov Manipa &amp; Metals Co., Ltd"</li> <li>12. "Pan Pacific Danisa Tim to 71 Refined Bangias Tu"</li> <li>13. "Par Pacific Danisa Tim to 71 Refined Bangias Tu"</li> <li>14. "Part Pacific Danisa Tim to 71 Refined Bangias Tu"</li> <li>15. "Janggel Anze Earth &amp; Ram Metals 'Lungsten Group Corp' to 'Canzbou Non-ferrous Metals Smeller Gou, Ltd."</li> <li>14. "Namarital Inc," to 71 Refined Bangias Tu"</li> <li>14. "Addit the tungsten refiner 'Vestram Youngsun Tungsten Industry Co., Ltd."</li> <li>24. Addit the tungsten refiner 'Vestram Youngsun Tungsten Industry Co., Ltd."</li> <li>24. Orrected the name of thin smeller "PT Timsh' to "PT Timsh (Persen), Tbk'.</li> <li>14. Corrected the name of thin smeller "PT Timsh' to "PT Timsh (Persen), Tbk'.</li> <li>15. Standard Smeler "Addit Netals - Lugas Stat."</li> <li>25. Standard Smeler State and Provember 7, 2014. The latest version of the Standard Smeller List is available at: http://www.conflictfreesourcing.org.</li> <li>15. Standard Smeler State of November 7, 2014. The latest version of the Standard Smeller List is available at: http://www.conflictfreesourcing.org.</li> <li>16. Standard Smeller List &amp; so November 7, 2014. The latest version of the Standard Smeller List is available at: http://www.conflictfreesourcing.org.</li> <li>17. Novemouth States Vestore of the Standard Smeller List is available at: http://www.conflictfreesourcing.org.</li> <li>17. Standard Smeller List is available at: http</li></ul>
3.02 4.0 4.01 4.01a 4.01b 4.10 4.20 5.0	Yamakawa, JEITA, and John Plyler, BlackBerry, under the direction of the CFSI Due Diligence Data Collection WorkgroupCFSI CMRT TeamCFSI CMRT TeamCFSI CMRT TeamCFSI CMRT Team	Nov 7th, 2014 Nov 7th, 2014 Apr 30th, 2015 August 6th, 2015 November 16th, 2015 May 12, 2017 May 12, 2017 May 12, 2017 June 21, 2017	are restricted to only use the drop-down options. 2. Addresed sets with Checker incorrectly showing "Description of Scope" as missing data when a user selects "B. Product (or List of Products)" as the Declaration Scope. 3. Programmed Checker to show missing data when response to question B is "Yes", unless a uri is entered the corresponding "Comments" field. 1. Revisions to the German language translation throughout. 2. Correction of the Japanese language translation for Question 4 on the Declaration worksheet. Replaced the Standard Smatter Names tab with the Smatter Reference List tab, displaying common alternate names for smelters as well as location information. Major update to synchronize the CPSI CMRT with the data fields in the newly revised IPC-1755 Standard. Changes include: 1. Changes to question text throughout. 2. Expansion of instructions and definitions. 3. Updated translations of all modified text. Minor revisions to correct reported issues including those related to error checking on the "Checker" and "Smelter List" tabs. No functional change. Elemetal CID corrected to read CID001322. 1. Corrections to all bugs and errors. 2. Enhancements which do not conflict with IPC-1755 3. Additions and clarifications in the instructions and definitions 5. Smelter List Tab: Re-introduction of Smelter not yet identified" 5. Smelter List Tab: Re-introduction of Smelter not yet identified 6. Smelter List Tab: Re-introduction of Smelter not yet identified 6. Smelter List Tab: Re-introduction of Smelter not yet identified 7. Translation improvements and addition of Turkish language 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and clarifications in the instructions and definitions b. Update to SD short names for countries 3. Translation improvements 4. Updates to the Smelter Reference List and Standard Smelter List 1. Corrections to all bugs and errors 2. Enhancements which do not conflict with IPC-1755 a. Additions and cla	<ul> <li>17. PT Sumbar Jaya Indah</li> <li>18. PT Timah Nasarana</li> <li>19. Timah Na</li></ul>
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RMI website: (www.responsiblemineralsinitiative.org) Training and guidance, template, Responsible Minerals Assurance Process conformant smelter list.

#### Introduction

This Conflict Minerals Reporting Template (Template) is a free, standardized reporting template created by the Responsible Minerals Initiative (RMI). The Template facilitates the transfer of information through the supply chain regarding mineral country of origin and smelters and refiners being utilized and supports compliance to legislation\*. The template also facilitates the identification of new smelters and refiners to potentially undergo an audit via the Responsible Minerals Assurance Process\*\*.

The CMRT was designed for downstream companies to disclose information about their supply chains up to but not including the smelter. If you are a 3TG smelter or refiner, in accordance with the RMAP protocols, we recommend you enter your own name in the smelter list tab.

When filling out the form, none of the cell entries should start will "=" or "#."

\* In 2010, the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act was passed concerning "conflict minerals" originating from the Democratic Republic of the Congo (DRC) or adjoining countries. The SEC published final rules associated with the disclosure of the source of conflict minerals by U.S. publicly traded companies (see the rules at

http://www.sec.gov/rules/final/2012/34-67716.pdf). The rules reference the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas, (http://www.oecd.org/daf/inv/mne/GuidanceEdition2.pdf), which guides suppliers to establish policies, due diligence frameworks and management systems.

In 2017, Regulation (EU) 2017/821 of the European Parliament and of the European Council of 17 May 2017 was passed concerning supply chain due diligence obligations for Union importers of tin, tantalum and tungsten, their ores, and gold originating from conflict-affected and high-risk areas (see regulation at https://eur-lex.europa.eu/legal-

content/EN/TXT/PDF/?uri=OJ:L:2017:130:FULL&from=EN)

**\*\*** See information on the Responsible Minerals Initiative (www.responsiblemineralsinitiative.org).

## Instructions for completing Company Information questions (rows 8 - 22). Provide comments in ENGLISH only

Note: Entries with (\*) are mandatory fields.

1. Insert your company's Legal Name. Please do not use abbreviations. In this field you have the option to add other commercial names, DBAs, etc.

2. Select your company's Declaration Scope. The options for scope are:

A. Company-wide

B. Product (or List of Products)

C. User-Defined

For "Company-wide", the declaration encompasses the entirety of a company's products or product substances produced by the parent company. Therefore if the user is reporting 3TG data at the company level, they will be reporting conflict minerals data on all products they manufacture.

For Scope selection of Product (or List of Products), a link to the worksheet tab for Product List will be displayed. If this scope is chosen, it is mandatory to list the Manufacturer's Product Number of the products covered under the Scope of this Declaration in Column B of the Product List worksheet. It is optional to list the Manufacturer's Product Name in Column C of the Product List worksheet.

For Scope selection of "User Defined", it is mandatory that the user describes the scope to which the 3TG disclosure is applicable. The scope of this class shall be defined in a text field by the supplier and should be easily understood by customers or the receivers of the document. As an example, companies may provide a link to clarifying information.

This field is mandatory.

3. Insert your company's unique identifier number or code (DUNS number, VAT number, customer-specific identifier, etc.)

4. Insert the source for the unique identifier number or code ("DUNS", "VAT", "Customer", etc).

5. Insert your full company address (street, city, state, country, postal code). This field is optional.

6. Insert the name of the person to contact regarding the contents of the declaration information. This field is mandatory.

7. Insert the email address of the contact person. If an email address is not available, state "not available" or "n/a." A blank field may cause an error in form implementation. This field is mandatory.

8. Insert the telephone number for the contact. This field is mandatory.

9. Insert the name of the person who is responsible for the contents of the declaration information. The authorizer may be a different individual than the contact person. It is not correct to use the words "same" or similar identification to provide the name of the authorizer. This field is mandatory.

10. Insert the title for the Authorizing person. This field is optional.

11. Insert the email address of the Authorizing person. If an email address is not available, state "not available" or "n/a." A blank field may cause an error in form implementation. This field is mandatory.

12. Insert the telephone number for the Authorizing person. This field is optional.

13. Please enter the Date of Completion for this form using the format DD-MMM-YYYY. This field is mandatory.

14. As an example, the user may save the file name as: companyname-date.xls (date as YYYY-MM-DD).

Instructions for completing the eight Due Diligence Questions (rows 24 - 71). Provide answers in ENGLISH only

These eight questions define the usage, origination and sourcing identification for each of the metals. The questions are designed to collect information about the use of 3TG in the company's product(s) to allow for the determination of regulatory applicability. Responses to these questions shall represent the `Declaration Scope' selected in the company information section.The responses to the questions in this section can be used to determine applicability and completeness of 3TG reporting.

For each of the eight required questions, provide an answer for each metal using the pull down menu selections. The questions in this section must be completed for all 3TG. If the response for a given metal to questions 1 and 2 is positive, then the subsequent questions shall be completed for that metal and the following due diligence questions (A to H) shall be completed about the company's overall due diligence program.

1. This is the first of two questions for which the response is used to determine whether the 3TG is within the scope of conflict minerals reporting requirements. This question relies upon the guidance provided by the SEC in the final rules regarding the determination if a 3TG is "necessary to the functionality or production" of a product. The SEC guidance is based upon the presumption that a company in the supply chain for a product would not intentionally add a 3TG to that product or any of a product's sub-components if that 3TG was not necessary to the product's generally expected function, use, or purpose. Similarly, the guidance presumes that a 3TG would not be necessary to the production of a product unless it was intentionally included in the production process of that product. The response to this question serves to exclude any trace-level contaminants or naturally-occurring by-products such as tin in steel. This question shall be answered for each 3TG.

This question asks if any conflict minerals are used as raw material, component or additive in a product that you manufacture or contract to manufacture (including raw material and components). Impurities from raw materials, components, additives, abrasives, and cutting tools are outside the scope of the survey.

This question shall be answered for each 3TG. Valid responses to this question are either "yes" or "no". This question is mandatory.

Some companies may require substantiation for a "No" answer that should be entered into the Comment Field.

2. This question shall be answered for each 3TG for each the answer to question 1 is "yes." This is the second of two questions for which the response is used to determine whether the 3TG is within the scope of conflict minerals reporting requirements as described in the SECs final rules regarding the determination if a 3TG is necessary to the functionality or production of a product. This question is dependent upon the question and response to Question 1. This question is intended to identify 3TGs which are intentionally added or included in the manufacturing process of a product where some amount of the 3TG remains in the finished product. This includes 3TGs which may not have been intended to become part of the final product and may not be necessary to the functionality of the product but are only present as residuals of the manufacturing process. In many cases, the manufacturer may have attempted to remove or facilitate consumption of the 3TG during the manufacturing process, be completely removed such that none of the 3TG remains upon the completion of that process, the response to this question would be no.

This question shall be answered for each 3TG. Valid answers to this question are either "yes" or "no". This question is mandatory.

3. This is a declaration that any portion of the 3TGs contained in a product or multiple products originates from the DRC or an adjoining country (covered countries). The answer to this question should be "yes" if any smelter in the supply chain sources from the covered countries, even if those smelters are on the RMI conformant smelter and refiner list. For more information, see RMI's due diligence guidance on conflict minerals here: http://www.responsiblemineralsinitiative.org/training-and-resources/publications-and-guidance/.

The answer to this question shall be "yes", "no", or "unknown". Substantiate a "Yes" answer in the comments section.

This question is mandatory for a specific metal if the response to Question 1 and 2 is "Yes" for that metal.

4. This is a declaration that any portion of the 3TGs contained in a product or multiple products originates from conflict-affected and high-risk areas (CAHRAs).

The answer to this question should be "yes" if any smelter in the supply chain sources from covered countries or CAHRAs, even if those smelters are on the RMI conformant smelter and refiner list. For more information, see RMI's due diligence guidance on conflict minerals here: http://www.responsiblemineralsinitiative.org/training-and-resources/publications-and-guidance/.

The answer to this question shall be yes, no or unknown. Substantiate a "yes" answer in the comments section. This question is mandatory for a specific metal if the response to Question 1 and 2 is "yes" for that metal.

5. This is a declaration that identifies whether 3TGs contained in the product(s) necessary to the functionality of that product(s) originate from recycled or scrap sources.

The answer to this question shall be "yes", "no", or "unknown". This question is mandatory for a specific metal if the response to Question 1 and 2 is "Yes" for that metal.

A "Yes" answer means that 100% of the 3TG comes from recycled or scrap sources. A "No" answer means that some of the 3TG does not come from recycled or scrap sources. An "Unknown" answer means that the user does not know whether or not 100% of the 3TG comes from recycled or scrap sources.

6. This is a question to determine whether a company has received conflict minerals disclosures from all direct suppliers reasonably believed to be providing 3TGs contained in the products covered by the scope of this declaration. Permissible responses to this question are:

- 100%

- Greater than 90%

- Greater than 75%

- Greater than 50%

- 50% or less - None

This question is mandatory for a specific metal if the response to Question 1 and 2 is "Yes" for that metal.

7. This question verifies if the supplier has reason to believe they have identified all of the smelters providing 3TGs in the products covered by this declaration. The answer to this question shall be "Yes" or "No", along with a comment in certain cases, e.g. list of smelters. This guestion is mandatory for a specific metal if the response to Question 1 and 2 is "Yes" for that metal. 8. This question verifies that all of the smelters identified to be providing any of the 3TGs contained in the products covered by the scope of this declaration have been reported in this declaration. The answer to this guestion shall be "yes" or "no" along with a comment in certain cases, e.g. list of smelters. This question is mandatory for a specific metal if the response to Question 1 and 2 is "Yes" for that metal. Provide comments in the Comment sections as required to clarify your responses. Instructions for completing Questions A. – H. (rows 75 - 89). Questions A. through H. are mandatory if the both of responses to Question 1 and 2 are "Yes" for any metal. **Provide answers in ENGLISH only** The OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-affected and High-risk Areas (OECD Guidance) defines "Due Diligence" as "an on-going, proactive and reactive process through which companies can ensure that they respect human rights and do not contribute to conflict". Due diligence should be an integral part of your company's overall conflict free sourcing strategy. Questions A. thru H. are designed to assess your company's conflict-free minerals sourcing due diligence activities. Responses to these questions shall represent the full scope of your company's activities and shall not be limited to the 'Declaration Scope' selected in the company information section. A. This is a declaration to disclose whether a company has a responsible minerals sourcing policy. The answer to this question shall be "yes" or "no." Comments shall be captured in a question comment field. This question is mandatory. B. This is a declaration to disclose whether a company's responsible minerals sourcing policy is available on the company website. The answer to this question shall be "yes" or "no." If "Yes" the user shall specify the URL in a question comment field. This question is mandatory. C. This is a declaration to determine whether a company requires their direct suppliers to source 3TG from validated smelters. The answer to this question shall be "yes" or "no." Comments should be captured in a question comment field. This question is mandatory. D. Please answer "yes" or "no" to disclose whether your company has implemented responsible sourcing due diligence measures. This declaration is not intended to provide the details of a company's due diligence measures - just that a company has implemented due diligence measures. The aspects of acceptable due diligence measures shall be determined by the requestor and supplier. Examples of due diligence measures may include: communicating and incorporating into contracts (where possible) your expectations to suppliers on responsible mineral supply chain; identifying and assessing risks in the supply chain; designing and implementing a strategy to respond to identified risks; verifying your direct supplier's compliance to its responsible minerals sourcing policy, etc. These due diligence measure examples are consistent with the guidelines included in the internationally recognized OECD Guidance. This question is mandatory. E. This is a question to disclose whether a company requests their supplier to fill out a conflict minerals declaration. Acceptable answers are listed below, in certain cases further explanation may be required, i.e., to provide the format used for collecting information. If the answer is "Yes," using other format the user shall provide a comment in a question comment field. Permissible responses to this question are: Yes, in conformance with IPC-1755 [e.g., CMRT] Yes, using other format (describe) No This question is mandatory. F. Please answer "Yes" or "No". In the comments section, you can provide additional information on your approach. Examples could be: "3rd party audit" - on-site audits of your suppliers conducted by independent third parties. "Documentation review only" - a reviewof supplier submitted records and documentation conducted by independent third parties and, or your company personnel. "Internal audit" - on-site audits of your suppliers conducted by your company personnel. This question is mandatory. G. This is a question to disclose whether a company's review process includes corrective action management. The answer to this question shall be "yes" or "no." Comments shall be captured in a question comment field. This question is mandatory. H. This is a question to disclose whether a company is subject to the SEC rule, the EU regulation, or both. The answer to this question shall be "yes, with the SEC", "yes, with the EU", "yes with the SEC and the EU" or "no." Comments shall be captured in a question comment field. This question is mandatory. For more information on the SEC rule, please refer to www.sec.gov. For more information on the EU regulation, please refer to https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0821&from=EN. Instructions for completing the Smelter List Tab. Provide answers in ENGLISH only Note: Columns with (\*) are mandatory fields This template allows for smelter identification using the Smelter Look-up. Columns B, and C must be completed in order from left to right to utilize the Smelter Look-up feature. Use a separate line for each metal/smelter/country combination. 1. Smelter Identification Input Column - If you know the Smelter Identification Number, input the number in Column A (columns B,

C, E, F, G, I, and J will auto-populate). Column A does not autopopulate.

2. Metal (\*) - Use the pull down menu to select the metal for which you are entering smelter information. This field is mandatory.

3. Smelter Look-up (\*) - Select from dropdown. This is the list of known smelters as of template release date. If smelter is not listed select 'Smelter Not Listed'. This will allow you to enter the name of the smelter in Column D. If you do not know the name or location of the smelter, select 'Smelter Not Yet Identified.' For this option, columns D and E will autopopulate to say, 'unknown.' This field is mandatory.

4. Smelter Name (1)- Fill in smelter name if you selected "Smelter Not Listed" in column C. This field will auto-populate when a smelter name in selected in Column C. This field is mandatory.

5. Smelter Country (\*) – This field will auto-populate when a smelter name is selected in column C. If you selected "Smelter Not Listed" in column C, use the pull down menu to select the country location of the smelter. This field is mandatory.

6. Smelter Identification - This is a unique identifier assigned to a smelter or refiner according to an established smelter and refinery identification system. It is expected that multiple names or aliases could be used to describe a single smelter or refiner and therefore multiple names or aliases could be associated to a single `Smelter ID'.

7. Source of Smelter Identification Number - This is the source of the Smelter Identification Number entered in Column F. If a smelter name was selected in Column C using the dropdown box, this field will auto-populate.

8. Smelter Street - Provide the street name on which the smelter is located. This field is optional.

9. Smelter City – Provide the city name of where the smelter is located. This field is optional.

field.

10. Smelter Location: State/Province, if applicable – Provide the state or province where the smelter is located. This field is optional.

11. Smelter Contact Name – The Conflict Minerals Reporting Template (CMRT) is circulated among companies in the requesting company's supply chain to ensure compliance with the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas and the U.S. Securities and Exchange Commission Final Rule on conflict minerals.

If the template is circulated in a country where laws protecting personal information exist, sharing personal contact information in the CMRT may violate related regulations. Therefore, it is recommended that the requesting company take precautions such as obtaining the contact person's permission to share the information with other companies in the supply chain when completing "Smelter Contact Name" and the "Smelter Contact Email" columns.

If you have permission to share this information, please fill in the name of the Smelter Facility Contact person who you worked with.

12. Smelter Contact Email – Fill in the email address of the Smelter Facility contact person who was identified as the Smelter Contact Name. Example: John.Smith@SmelterXXX.com. Please review the instructions for Smelter Contact Name before completing this

13. Name of Mine(s) - This field allows a company to define the actual mines being used by the smelter. Please enter the actual mine names if known. If 100% of the smelter's feedstock originates from recycled or scrap sources, enter "Recycled" or "Scrap" in place of the name of the mine and answer "Yes" in Column P. 'RCOI confirmed as per RMI" may be an acceptable answer to this question. 14. Location (Country) of Mine(s) - This is a free form text field that allows a company to define the location of the mines being used by the smelter. Please enter the country of the mine(s). If the country of origin is not known, enter "Unknown". If 100% of the smelter's feedstock originates from recycled or scrap sources, enter "Recycled" or "Scrap" in place of the country of origin. This field is optional. 'RCOI confirmed as per RMI" may be an acceptable answer to this question. 15. Indicates whether the smelter solely obtains inputs for its smelting process(es) from recycled or scrap sources. This question is optional. Permissible responses to this question are: Yes No · Unknown 16. Comments – free form text field to enter any comments concerning the smelter. Example: smelter is being acquired by Company YYY **TERMS AND CONDITIONS** RBA makes no representations or warranties with respect to the List or any Tool. The List and Tools are provided on an "AS IS" and on an "AS AVAILABLE" basis. RBA hereby disclaims all warranties of any nature, express, implied or otherwise, or arising from trade or custom, including, without limitation, any implied warranties of merchantability, non-infringement, quality, title, fitness for a particular purpose, completeness or accuracy. To the fullest extent permitted by applicable laws, RBA renounces any liability for any losses, expenses or damages of any nature, including, without limitation, special, incidental, punitive, direct, indirect or consequential damages or lost income or profits, resulting from or arising out of the User's use of the List or any Tool, whether arising in tort, contract, statute, or otherwise, even if shown that they were advised of the possibility of such damages. In consideration for access and use of the List and/or any Tool, THE USER hereby agrees to and does (a) release and forever discharge RBA, as well as their respective officers, directors, agents, employees, volunteers, representatives, contractors, successors, and assigns, from any and all claims, actions, losses, suits, damages, judgments, levies, and executions, which the User has ever had, has, or ever can, shall, or may have or claim to have against RBA, as well as their respective officers, directors, agents, employees, volunteers, representatives, contractors, successors, and assigns, resulting from or arising out of the List or any Tool or use thereof, and agrees to (b) indemnify, defend and hold harmless RBA, as well as their respective officers, directors, agents, employees, volunteers, representatives, contractors, successors, and assigns, from any and all claims, actions, losses, suits, damages, judgments, levies, and executions resulting from or arising out of the USER'S use of the List or any Tool.

any part of any provision of these Terms and Conditions shall be invalid or upenforceable under applicable law, said part shall be

If any part of any provision of these Terms and Conditions shall be invalid or unenforceable under applicable law, said part shall be deemed ineffective to the extent of such invalidity or unenforceability only, without in any way affecting the remaining parts of said provision or the remaining provisions of these Terms and Conditions.	
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Return to declaration tab	
Revision 6.22 May 11, 2022	

ITEM 3TG	DEFINITION Tantalum, tin, tungsten, gold
Authorizer	This field identifies the person responsible for the content of the declaration. The authorizer may be a different individual from the contact person. It is not correct to use the words "same" or similar identification to provide the name of the authorizer.
Conflict-Affected and High-Risk Area (CAHRA)	Conflict-affected and high-risk areas are areas in a state of armed conflict, fragile post-conflict areas, as well as areas witnessing weak or non-existing governance and security, such as failed states, and widespread and systematic violations of international law, including human rights
Conflict Mineral	As defined in 2010 United States legislation, Dodd-Frank Wall Street Reform and Consumer Protection Act, Section 1502(e)(4): CONFLICT MINERAL.—The term ``conflict mineral'' means— (A) columbite-tantalite (coltan), cassiterite, gold, wolframite, or their derivatives; or (B) any other mineral or its derivatives determined by the Secretary of State to be financing conflict in the Democratic Republic of the Congo or an adjoining country. (available at http://www.sec.gov/about/laws/wallstreetreform-cpa.pdf)
Covered Country(ies)	Covered Country(ies) as defined by the United States Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010. These countries include the Democratic Republic of the Congo and the nine countries with which it shares an internationally recognized border: Angola, Burundi, Central African Republic, Republic of the Congo, Rwanda, South Sudan, Tanzania, Uganda, Zambia.
Declaration Scope or Class	For the purposes of this template, "scope" describes the applicability of the information provided by the reporting company. The scope may encompass the entirety of a company's services and/or products, or at a company's discretion, the template may be used to report on a specific product (or products), or, be 'User defined'. The 'User defined' scope selection or class may be used to describe any subset of a company's operation or product portfolio.
Dodd-Frank	2010 United States legislation, Dodd-Frank Wall Street Reform and Consumer Protection Act, Section 1502 ("Dodd-Frank") (http://www.sec.gov/about/laws/wallstreetreform-cpa.pdf)
DRC	Democratic Republic of Congo
Gold (Au) refiner (smelter)	A gold refiner is a metallurgical operation that produces fine gold with a concentration of 99.5% or higher from gold and gold-bearing materials with lower concentrations. Refer to the RMAP audit protocol for this metal for a complete description: http://www.responsiblemineralsinitiative.org/smelter-introduction/.
Independent Third-Party Audit Firm	With respect to smelter audits, an "Independent Third-Party Audit Firm" is a private sector organization competent in evaluating the smelter or refiner's materials traceability against the standards of the RMAP or equivalent audit protocols. To maintain neutrality and impartiality, such organization and its audit team members must have no conflicts of interest with the auditee.
Intentionally added	Intentionally added is commonly known as the deliberate use of a substance, or in this case metal, in the formulation of a product where continued presence is desired to provide a specific characteristic, appearance or quality.
	While the SEC does not define the phrase "intentionally added" in the final rule*, the rule's preamble states: "[W]e agree that being intentionally added, rather than being a naturally-occurring by-product, is a significant factor in determining whether a conflict mineral is "necessary to the functionality or production" of a product. This is true regardless of who intentionally added the conflict mineral to the product so long as it is contained in the product. [D]etermining whether a conflict mineral is considered "necessary" to a product should not depend on whether the conflict mineral is added directly to the product by the issuer or whether it is added to a component of the product that the issuer receives from a third party. Instead, the issuer should 'report on the totality of the product and work with suppliers to comply with the requirements.' Therefore, in determining whether a conflict mineral is "necessary" to a product, an issuer must consider any conflict mineral is "necessary" to a product that conflict mineral is only in the product because it was included as part of a component of the product that was manufactured originally by a third party."
IPC	*(56296 Federal Register / Vol. 77, No. 177 / Wednesday, September 12, 2012 / Rules and IPC (www.IPC.org) is a global industry association based in Bannockburn, Ill., dedicated to the competitive excellence and financial success of its 3,400 member companies which represent all facets of the electronics industry, including design, printed board manufacturing, electronics assembly and test. As a member-driven organization and leading source for industry standards, training, market research and public policy advocacy, IPC supports programs to meet the needs of an estimated \$2.0 trillion global electronics industry. IPC maintains additional offices in Taos,
IPC-1755 Responsible Sourcing	N.M.; Washington, D.C.; Stockholm, Sweden; Moscow, Russia; Bangalore, India; Bangkok, Thailand; and Shanghai, Shenzhen, Chengdu, Suzhou and Beijing, China. This IPC standard establishes the requirements for exchanging conflict minerals data between
of Minerals Data Exchange Standard Necessary for the Functionality	suppliers and their customers. To meet the needs of a broad range of users, this standard provides flexibility in the scope of the products covered within a single declaration. This standard is not a compliance guide. The SEC does not provide a formal definition of this phrase in the final rule*, however it provides
of a Product	some guidance: A conflict mineral will be considered to be necessary to its functionality of a product if it meets the following: 1) is intentionally added to the product or any component of the product and is not a naturally-occurring byproduct; 2) is necessary to the product's generally expected function, use or purpose; and 3) is incorporated for the purpose of ornamentation, decoration, or embellishment, whether the primary purpose of the product is ornamentation or decoration. NOTE: The conflict mineral must be contained in the product to be applicable.
Necessary for the Production of a Product	*(56296 Federal Register / Vol. 77, No. 177 / Wednesday, September 12, 2012 / Rules and Perulations) The SEC does not provide a formal definition of this phrase in the final rule*; however, it provides some guidance: A conflict mineral will be considered to be necessary to the production of a product when: 1) it is intentionally included in the product's production process, other than if it is included in a tool, machine, or equipment used to produce the product (such as computers or power lines); 2) it is included in the product (MUST be contained in the product to be applicable); and 3) it is necessary to the product. *(56296 Federal Register / Vol. 77, No. 177 / Wednesday, September 12, 2012 / Rules and
OECD Product	Regulations)         Organisation for Economic Co-operation and Development         A company's Product or Finished good is a material or item which has completed the final stage
RBA Recycled or Scrap Sources	of manufacturing and/or processing and is available for distribution or sale to customers. Responsible Business Alliance (www.responsiblebusiness.org) Recycled or scrap sources are recycled metals, that are reclaimed end-user or post-consumer
	products, or scrap processed metals created during product manufacturing. Recycled metal includes excess, obsolete, defective, and scrap metal materials that contain refined or processed metals that are appropriate to recycle in the production of tin, tantalum, tungsten and/or gold. Minerals partially processed, unprocessed or byproducts from other ores are not included in the definition of recycled metal.
Responsible Minerals Assurance Process (RMAP)	The Responsible Minerals Assurance Process (RMAP) is a process developed by the RBA to enhance company capability to verify the responsible sourcing of metals. Further details of the RMAP can be found here: http://www.responsiblemineralsinitiative.org/responsible-minerals-
Responsible Minerals Initiative	assurance-process/. Founded in 2008 by members of the Responsible Business Alliance, the Responsible Minerals Initiative has grown into one of the most utilized and respected resources for companies addressing conflict minerals issues in their supply chains. Over 360 companies from ten different industries participate in the RMI today, contributing to a range of tools and resources including the Responsible Minerals Assurance Process, the Conflict Minerals Reporting Template, Reasonable Country of Origin Inquiry data and a range of guidance documents on conflict minerals sourcing. The RMI also runs regular workshops on conflict minerals issues and contributes to policy development and debates with leading civil society organizations and governments. Additional information is available at
RMAP Conformant Smelter List	http://www.responsiblemineralsinitiative.org. The Responsible Minerals Assurance Process (RMAP) Conformant Smelter List is a published list of smelters and refiners that have undergone assessment through the RMAP, a program of the Responsible Minerals Initiative (RMI) or industry equivalent program (such as Responsible Jewellery Council or London Bullion Market Association) and have been validated to be in conformance with the protocols. If a smelter or refiner is not on the list, it has either not completed a RMAP assessment or is not in conformance with the RMAP protocol. A list of smelters and refiners which have been validated to be conformant to the RMAP can be
SEC	found at www.responsiblemineralsinitiative.org. U.S. Securities and Exchange Commission (www.sec.gov)
Smelter	A smelter or refiner is a company that procures and processes mineral ore, slag and/or materials from recycled or scrap sources into refined metal or metal containing intermediate products. The output can be pure (99.5% or greater) metals, powders, ingots, bars, grains, oxides or salts. The
Smelter Identification Number	terms "smelter" and "refiner" are used interchangeably throughout various publications.A unique identification number the RMI assigns to companies that have been reported by
Tantalum (Ta) smelter	members of the supply chain as smelters or refiners, whether or not they have been verified to meet the characteristics of smelters or refiners as defined in the RMAP audit protocols. A tantalum smelter (also known as a processor) is defined as a company that converts Ta-
	containing ores, concentrates, slags or secondary materials into tantalum intermediate products or other tantalum containing products for direct sales or further processing into Ta-containing products, such as Ta powders, Ta components, Ta oxides, alloys, wires, sintered bars, etc. Refer to the RMAP audit protocol for this metal for a complete description at:
Tin (Sn) smelter	http://www.responsiblemineralsinitiative.org/smelter-introduction/. Primary [tin] smelters are companies with one or more facilities treating tin containing ore concentrates in order to produce tin metal. Secondary [tin] smelters are companies with one or more facilities that treat secondary materials by reduction for the production of crude or higher grade tin or tin product such as solder. A smelter as referred to within this audit protocol may operate as either one or both types of business operation. Refer to the RMAP audit protocol for this metal for a complete description: http://www.responsiblemineralsinitiative.org/smelter- introduction/.
Tungsten (W) smelter	A company with one or more facilities that converts W-containing ores (such as wolframite and scheelite), W concentrates, or W-bearing scrap (secondary material) into tungsten containing intermediates such as Ammonium Para-Tungstate (APT), Ammonium Meta-Tungstate (AMT),

Dodd-Frank	2010 United States legislation, Dodd-Frank Wall Street Reform and Consumer Protection Act,
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The purpose of this document is to collect sourcing information or	tin, tantalum, tungsten and gold used	
Mandatory fields are noted with an asterisk (*). C	Consult the instructions tab for guidanc Company Information	e on how to answer each question.
Company Name (*): Declaration Scope or Class (*):	United Performance Metals B. Product (or List of Products)	
Go to Product List tab to enter products this declaration applies to	Click here to enter the products this dec	claration applies to
Company Unique ID:		
Company Unique ID Authority: Address:	Corporate - 3475 Symmes Rd. Hamilton	oH 45015
Contact Name (*): Email – Contact (*):	Josh Fields <u>ifields@upmet.com</u>	
Phone - Contact (*): Authorizer (*):	513-870-6500 Michael McCord	
Title - Authorizer:	Compliance	
Email - Authorizer (*):	mmccord@upmet.com	
Phone - Authorizer: Effective Date (*):	513-860-6500 24-Jan-2023	
Answar the following question	ns 1 - 8 based on the declaration scope i	→
Auswer the following question	is 1 - 6 based on the declaration scope i	nuitateu above
1) Is any 3TG intentionally added or used in the product(s) or in the production process? (*)	Answer	Comments
Tantalum (*)	Yes	
Tin (*) Gold	Yes No	
Tungsten (*)	Yes	-
2) Does any 3TG remain in the product(s)? (*) Tantalum (*)	Answer Yes	Comments
Tin (*)	Yes	
Gold		
Tungsten (*)	Yes	
3) Do any of the smelters in your supply chain source the 3TG from the covered countries?		
(SEC term, see definitions tab) (*)	Answer	Comments
Tantalum (*) Tin (*)	No	
Gold		
Tungsten (*)	No	
<ol> <li>Do any of the smelters in your supply chain source the 3TG from conflict-affected and high- risk areas? (*)</li> </ol>	Answer	Comments
Tantalum (*)	No	
Tin (*)	No	
Gold Tungsten (*)	No	۹
i ungsten (*)		
5) Does 100 percent of the 3TG (necessary to the functionality or production of your products) originate from recycled or scrap sources? (*)	Answer	Comments
Tantalum (*)	No	primary source is recycled or scrap
Tin (*) Gold	No	primary source is recycled or scrap
Tungsten (*)	No	primary source is recycled or scrap
6) What percentage of relevant suppliers have provided a response to your supply chain		
survey? (*) Tantalum (*)	Answer Greater than 90%	Comments
Tin (*)	Greater than 90%	
Gold		
Tungsten (*)	Greater than 90%	

Select Language Preference Here: 遊遊症の的語言: 小용할 안에를 선택하시오 : 水용할 안에를 선택하시오 : 永示言語をここから選択してください: Selectionner la langue préférée ici: Selectionner la langue préférée ici: Selectione Preferência de idioma Aqui: Wählen sie hier die Sprache: Selectione el lenguaje de preferencia aqui: Selectione el lenguaje de preferencia aqui: Selectioner la langue de preferencia aqui: Selectione el lenguaje de preferencia aqui: Selectione el lenguaje de preferencia aqui: Selectione la lingua di preferenza qui: Burada Dil Tercihini Belirlevin: The purpose of this document is to collect sourcing information on Mandatory fields are noted with an asterisk (*). Co	English tin, tantalum, tungsten and gold used in	
7) Have you identified all of the smelters supplying the 3TG to your supply chain? (*)	Answer	Comments
Tantalum (*)	Yes	
Tin (*)	Yes	
Gold		
Tungsten (*)	Yes	
8) Has all applicable smelter information received by your company been reported in this declaration? (*) Tantalum (*) Tin (*) Gold	Answer Yes Yes	Comments
Tungsten (*)	Yes	
Answer the Fol	lowing Questions at a Company Level	
Question	Answer	Comments
A. Have you established a responsible minerals sourcing policy? (*)	Yes	
B. Is your responsible minerals sourcing policy publicly available on your website? (Note – If yes, the user shall specify the URL in the comment field.) (*)	Yes	www.upmet.com
C. Do you require your direct suppliers to source the 3TG from smelters whose due diligence practices have been validated by an independent third party audit program? (*)	Yes	
D. Have you implemented due diligence measures for responsible sourcing? (*)	Yes	
E. Does your company conduct Conflict Minerals survey(s) of your relevant supplier(s)? (*)	Yes, using other format (describe)	email requests for completed template for a either a company or product list declaration
F. Do you review due diligence information received from your suppliers against your company's expectations? (*)	Yes	
G. Does your review process include corrective action management? (*)	Yes	
H. Is your company required to file an annual conflict minerals disclosure? (*)	No	

TO BEGIN: Option A: If you know the Smelter Identification Number, input the number in Column A (columns B, C, E, F, G, I and J will auto-populate); D will grey out.
Option A: If you know the Smelter Identification Number, input the number in Column A (columns B, C, E, F, G, I and J will auto-populate); D will grey out.
Option B: If you have a Metal and Smelter Look-up name combination, complete the following steps:
Step 1. Select Metal in column B
Step 2. Select from dropdown in column C (wrong combination will trigger RED color)
Option C: If you have a Metal and Smelter Name combination, complete the following steps:
Step 1. Select Metal in column B
Step 2: Select "Smelter Not Listed" in the Smelter Look-up drop down and complete columns D & E
Step 3. Enter all available smelter information in columns H through Q
(*) Mandatory fields are noted with an asterisk.
(1) Entry required when Smelter Look-up = "Smelter not listed"
NOTE: A combination of Options A, B and C may be used to complete the Smelter List. Do not alter autopopulated cells. All errors in the Smelter Look-up should be reported to RMI by contacting RMI@responsiblebusiness.org.

Smelter				
Identification	Metal (*)	Smelter Look-up (*)	Smelter Name (1)	Smelter Co
Number Input	()			
Column				

Column						Number	
	Tantalum	H.C. Starck Co., Ltd.		THAILAND	CID002544	RMI	
		H.C. Starck Smelting GmbH & Co. KG		GERMANY	CID002550	RMI	-
	Tin	Tin Technology & Refining		UNITED STATES OF AMERICA	CID003325	RMI	-
	Tungsten	Allied Material Corporation		JAPAN	CID000004	RMI	-
	Tungsten	ATI Tungsten Materials		UNITED STATES OF AMERICA	CID000105	RMI	-
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ielter Look-up (*)	Smelter Name (1)	Smelter Country (*)	Smelter Identification	Source of Smelter Identification Number	Smelter City	Smelter Facility Location: State / Province	Smelter Contact Name	Smelter Contac
Ltd.				RMI		Rayong		
Iting GmbH & Co. KG		GERMANY UNITED STATES OF		RMI		Baden-Württemberg		
k Refining		UNITED STATES OF AMERICA JAPAN		RMI RMI	West Chester Toyama City	Pennsylvania		
orporation terials		UNITED STATES OF		RMI		Toyama Alabama		
		AMERICA						

act Email	Proposed next steps	Name of Mine(s) or if recycled or scrap sourced, enter "recycled" or "scrap"	Location (Country) of Mine(s) or if recycled or scrap sourced, enter "recycled" or "scrap"	Does 100% of the smelter's feedstock originate from recycled or scrap sources?	

Revision 6.22 May 11, 2022
Comments

Smelter Identification Number Input Column	Metal (*)	Smelter Look-up (*)	Smelter Name (1)	Source of Smelter Country (*) Identification Identification Number	Smelter Street Smelter City	Smelter Facility Location: State / Sn Province	melter Contact Name Smelte	er Contact Email	Proposed next steps	Name of Mine(s) or if recycled or scrap sourced, enter "recycled" or "scrap"	Location (Country) of Mine(s) or if recycled or scrap sourced, enter "recycled" or "scrap"	Does 100% of the smelter's feedstock originate from recycled or scrap sources?	

d	Comments	
		4

Click here to return to Declaration tab Required Fields	en populated before submitting to your customers rev Click here to return to Smelter List Answer provided	Click here to return to Product List <b>Notes</b>	Required fields remaining to be completed 0 Hyperlink to source
ompany Name (*):		Complete	
eclaration Scope or Class (*):	B. Product (or List of Products)	Complete	
ontact Name (*):	Tom Bauer	Complete	
mail – Contact (*):	tbauer@upmet.com	Complete	
hone – Contact (*):	513-860-6500	Complete	
uthorizer (*):	Darryl Staton	Complete	
mail - Authorizer (*):	dstaton@upmet.com	Complete	
ffective Date (*):	14-Jun-2022	Complete	
antalum (*)	Yes	Complete	
in (*)		Complete	
old		Complete	
ungsten (*)		Complete	
) Does any 3TG remain in the product(s)? (*)			
antalum (*)		Complete	
n (*) old		Complete	
ungsten (*)	Yes	Complete	
Do any of the smelters in your supply chain source e 3TG from the covered countries? (SEC term, see			
antalum (*)	No	Complete	
n (*)		Complete Complete	
old		Complete	
Ingsten (*)	Νο	Complete	
) Do any of the smelters in your supply chain source le 3TG from conflict-affected and high-risk areas? <sup>(</sup> )			
antalum (*)	No	Complete	
in (*)	No	Complete	
old		Complete	
ungsten (*) ) Does 100 percent of the 3TG (necessary to the	No	Complete	
unctionality or production of your products) originate om recycled or scrap sources? (*)			
		Complete	
i <b>n (*)</b> old	No	Complete	
ungsten (*)	No	Complete	
) What percentage of relevant suppliers have rovided a response to your supply chain survey? (*)			
antalum (*)		Complete	
<b>n (*)</b> old	Greater than 90%	Complete Complete	
ungsten (*) Have you identified all of the smelters supplying	Greater than 90%	Complete	
e 3TG to your supply chain? (*)			
antalum (*)	Yes	Complete	
n (*)	Yes	Complete	
bld		Complete	
ungsten (*)	Yes	Complete	
Has all applicable smelter information received by our company been reported in this declaration? (*)			
antalum (*)	Yes	Complete	
n (*)	Yes	Complete	
old		Complete	
ungsten (*) uestion	Yes	Complete	
Have you established a responsible minerals purcing policy? (*)	Yes	Complete	
Is your responsible minerals sourcing policy ublicly available on your website? (Note – If yes, the ser shall specify the URL in the comment field.) (*)	Yes	Complete	
e URL in the comment field	www.upmet.com	Complete	
Do you require your direct suppliers to source the G from smelters whose due diligence practices have en validated by an independent third party audit	Yes	Complete	
by an independent time party dudit ogram? (*) Have you implemented due diligence measures for sponsible sourcing? (*)	Yes	Complete	
Does your company conduct Conflict Minerals rvey(s) of your relevant supplier(s)? (*)		Complete	
Do you review due diligence information received om your suppliers against your company's pectations? (*)	Yes	Complete	
Does your review process include corrective action anagement? (*)	Yes	Complete	
Is your company required to file an annual conflict inerals disclosure? (*)		Complete	
	One or more product / item numbers have been	Complete	
	provided		
roduct List melter List - Tantalum	provided	Complete	
oduct List	provided	Complete Complete Complete	

## Completion required only if reporting level "Product (or List of Products)" selected on the 'Declaration' worksheet.

PONS



321 Stainless Steel	S32100	No conflict minerals
321H Stainless Steel	S32109	No conflict minerals
347 Stainless Steel	S34700	No conflict minerals
347H Stainless Steel	S34709	No conflict minerals
A286 Precipitation Hardenable Stainless Steel	S66286	No conflict minerals
Titanium Grade (according to ASTM B265)		
COMMERCIALLY PURE GRADE 1	UNS R50250	No conflict minerals
COMMERCIALLY PURE GRADE 2/2H	UNS R50400	No conflict minerals
COMMERCIALLY PURE GRADE 3	UNS R50550	No conflict minerals
COMMERCIALLY PURE GRADE 4	UNS R50700	No conflict minerals
6AL-4V GRADE 5	UNS R56400	No conflict minerals
CP GRADE 7	UNS R52400	No conflict minerals
TI ALLOY GRADE 12	UNS R53400	No conflict minerals
3AL-8V-6CR-4MO-4ZR ALLOY GRADE 19	UNS R58460	No conflict minerals
6AL-4V ELI ALLOY GRADE 23	UNS R56407	No conflict minerals
B16	UNS C36000	No conflict minerals
MIC 6		No conflict minerals
7075 AL	UNS A97075	No conflict minerals
6061 AL	UNS A96061	No conflict minerals

The following list represents the RMI's latest smelter name/alias information as of this templates release. This list is updated frequently, and the most up-to-date version can be found on the RMI website http://www.responsiblemineralsinitiative.org/responsible-minerals-assurance-process/exports/cmrt-export/. The presence of a smelter here is NOT a guarantee that it is currently Active or Conformant within the Responsible Minerals Assurance Process.

Please refer to the RMI web site www.responsiblemineralsinitiative.org for the most current and accurate list of standard smelter names that are Active or Conformant.

Names included in column B represent company names that are commonly recognized and reported by the supply chain for a particular smelter. These names may include former company names, alternate names, abbreviations, or other variations. Although the names may not be the RMI Standard Smelter Name, the reference names are helpful to identify the smelter, which is listed under column C in the Smelter Look-up.

Column C is the list of the official standard smelter names, in the ASCII character set. The majority of smelters will have the same entry for both columns, however if the common name varies from the standard name, the variation is noted in Column B.

Metal	Smelter Look-up (*)	Standard Smelter Names	Smelter Facility Location: Country	Smelter ID	Source of Smelter Identificatio n Number	Smelter Street	Smelter City	Smelter Facility Location: State / Province
Gold	8853 S.p.A.	8853 S.p.A.	ITALY	CID002763	RMI		Pero	Lombardia
Gold	ABC Refinery Pty Ltd.	ABC Refinery Pty Ltd.	AUSTRALIA	CID002920	RMI		Marrickville	New South Wales
Gold	Abington Reldan Metals, LLC	Abington Reldan Metals, LLC	UNITED STATES OF AMERICA	CID002708	RMI		Fairless Hills	Pennsylvania
Gold	Advanced Chemical Company	Advanced Chemical Company	UNITED STATES OF AMERICA	CID000015	RMI		Warwick	Rhode Island
Gold	African Gold Refinery	African Gold Refinery	UGANDA	CID003185	RMI		Entebbe	Wakiso
Gold	Agosi AG	Agosi AG	GERMANY	CID000035	RMI		Pforzheim	Baden-Württemberg
Gold	AGR (Perth Mint Australia)	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA	CID002030	RMI		Newburn	Western Australia
Gold	AGR Mathey	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA	CID002030	RMI		Newburn	Western Australia
Gold	Aida Chemical Industries Co., Ltd.	Aida Chemical Industries Co., Ltd.	JAPAN	CID000019	RMI		Fuchu	Tokyo
Gold	AKITA Seiren	Dowa	JAPAN	CID000401	RMI		Kosaka	Akita
Gold	Al Etihad Gold LLC	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES	CID002560	RMI		Dubai	Dubayy
Gold	Al Etihad Gold Refinery DMCC	Al Etihad Gold Refinery DMCC	UNITED ARAB EMIRATES	CID002560	RMI		Dubai	Dubayy
Gold	Albino Mountinho Lda.	Albino Mountinho Lda.	PORTUGAL	CID002760	RMI		Gondomar	Porto
Gold	Alexy Metals	Alexy Metals	UNITED STATES OF AMERICA	CID003500	RMI		Mentor	Ohio
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	Agosi AG	GERMANY	CID000035	RMI		Pforzheim	Baden-Württemberg
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	Almalyk Mining and Metallurgical Complex (AMMC)	UZBEKISTAN	CID000041	RMI		Almalyk	Toshkent
Gold	Amagasaki Factory, Hyogo Prefecture, Japan	Asahi Pretec Corp.	JAPAN	CID000082	RMI		Kobe	Hyogo
Gold	AngloGold Ashanti Brazil	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL	CID000058	RMI		Nova Lima	Minas Gerais
Gold	AngloGold Ashanti Corrego do Sitio Mineracao	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL	CID000058	RMI		Nova Lima	Minas Gerais
Gold	AngloGold Ashanti Córrego do Sítio Mineração	AngloGold Ashanti Corrego do Sitio Mineracao	BRAZIL	CID000058	RMI		Nova Lima	Minas Gerais
Gold	Anhui Tongling Nonferrous Metal Mining Co., Ltd.	Tongling Nonferrous Metals Group Co., Ltd.	CHINA	CID001947	RMI		Tongling	Anhui Sheng
Gold	ANZ (Perth Mint 4N)	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA	CID002030	RMI		Newburn	Western Australia
Gold	ANZ Bank	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA	CID002030	RMI		Newburn	Western Australia
Gold	Argor-Heraeus S.A.	Argor-Heraeus S.A.	SWITZERLAND	CID000077	RMI		Mendrisio	Ticino
Gold	Asahi Pretec Corp.	Asahi Pretec Corp.	JAPAN	CID000082	RMI		Kobe	Hyogo
Gold	Asahi Refining Canada Ltd.	Asahi Refining Canada Ltd.	CANADA	CID000924	RMI		Brampton	Ontario
Gold Gold Gold	Asahi Refining USA Inc. Asaka Riken Co., Ltd. ATAkulche	Asahi Refining USA Inc. Asaka Riken Co., Ltd.	UNITED STATES OF AMERICA JAPAN TURKEY	CID000920 CID000090 CID000103	RMI RMI RMI		Salt Lake City Tamura Istanbul	Utah Fukushima İstanbul
Gold Gold	Atasay Kuyumculuk Sanayi Ve Ticaret A.S. AU Traders and Refiners	Atasay Kuyumculuk Sanayi Ve Ticaret A.S. Atasay Kuyumculuk Sanayi Ve Ticaret A.S. AU Traders and Refiners	TURKEY SOUTH AFRICA	CID000103 CID000103 CID002850	RMI RMI RMI		Istanbul Istanbul Johannesburg	İstanbul Gauteng
Gold Gold	Augmont Enterprises Private Limited Aurubis AG	Augmont Enterprises Private Limited Aurubis AG	INDIA GERMANY	CID002850 CID003461 CID000113	RMI RMI RMI		Mumbai Hamburg	Mahārāshtra Hamburg
Gold Gold	BALORE REFINERSGA Bangalore Refinery	Bangalore Refinery Bangalore Refinery	INDIA	CID002863 CID002863	RMI RMI		Bangalore Bangalore	Karnataka Karnataka
Gold Gold	Bangalore Refinery Pvt Ltd	Bangalore Refinery i Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	INDIA PHILIPPINES	CID002863 CID000128	RMI RMI		Bangalore Quezon City	Karnataka Rizal
Gold	Boliden AB	Boliden AB	SWEDEN	CID000157	RMI		Skelleftehamn	Västerbottens län [SE-24]
Gold	C. Hafner GmbH + Co. KG	C. Hafner GmbH + Co. KG	GERMANY	CID000176	RMI		Pforzheim	Baden-Württemberg
Gold	C.I Metales Procesados Industriales SAS	C.I Metales Procesados Industriales SAS	COLOMBIA	CID003421	RMI		Cota	Cundinamarca
Gold	Caridad	Caridad	MEXICO	CID000180	RMI		Nacozari	Sonora
Gold	CCR	CCR Refinery - Glencore Canada Corporation	CANADA	CID000185	RMI		Montréal	Quebec
Gold	CCR Refinery - Glencore Canada Corporation	CCR Refinery - Glencore Canada Corporation	CANADA	CID000185	RMI		Montréal	Quebec
Gold	Cendres + M?taux SA	Cendres + Metaux S.A.	SWITZERLAND	CID000189	RMI		Biel-Bienne	Bern
Gold	Cendres + Metaux S.A.	Cendres + Metaux S.A.	SWITZERLAND	CID000189	RMI		Biel-Bienne	Bern
Gold	Cendres + Métaux S.A.	Cendres + Metaux S.A.	SWITZERLAND	CID000189	RMI		Biel-Bienne	Bern
Gold	Central Bank of the Philippines Gold Refinery & Mint	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	PHILIPPINES	CID000128	RMI		Quezon City	Rizal
Gold	CGR Metalloys Pvt Ltd.	CGR Metalloys Pvt Ltd.	INDIA	CID003382	RMI		Cochin	Kerala
Gold	CHALCO Yunnan Copper Co. Ltd.	Yunnan Copper Industry Co., Ltd.	CHINA	CID000197	RMI		Kunming	Yunnan Sheng
Gold	Chemmanur Gold Refinery	CGR Metalloys Pvt Ltd.	INDIA	CID003382	RMI		Cochin	Kerala
Gold	Chimet S.p.A.	Chimet S.p.A.	ITALY	CID000233	RMI		Arezzo	Toscana
Gold	China Henan Zhongyuan Gold Smelter	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA	CID002224	RMI		Sanmenxia	Henan Sheng
Gold	China's Shandong Gold Mining Co., Ltd	Shandong Gold Smelting Co., Ltd.	CHINA	CID001916	RMI		Laizhou	Shandong Sheng
Gold	Chugai Mining	Chugai Mining	JAPAN	CID000264	RMI		Chiyoda	Tokyo
Gold	Daye Non-Ferrous Metals Mining Ltd.	Daye Non-Ferrous Metals Mining Ltd.	CHINA	CID000343	RMI		Huangshi	Hubei Sheng
Gold	DEGUSSA	Degussa Sonne / Mond Goldhandel GmbH	GERMANY	CID002867	RMI		Pforzheim	Baden-Württemberg
Gold	Degussa Sonne / Mond Goldhandel GmbH	Degussa Sonne / Mond Goldhandel GmbH	GERMANY	CID002867	RMI		Pforzheim	Baden-Württemberg
Gold	Dijllah Gold Refinery FZC	Dijllah Gold Refinery FZC	UNITED ARAB EMIRATES	CID003348	RMI		Sharjah	Ash Shāriqah
Gold	Do Sung Corporation	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF	CID000359	RMI		Gimpo	Gyeonggi-do
Gold	Doduco	DODUCO Contacts and Refining GmbH	GERMANY	CID000362	RMI		Pforzheim	Baden-Württemberg
Gold	DODUCO Contacts and Refining GmbH	DODUCO Contacts and Refining GmbH	GERMANY	CID000362	RMI		Pforzheim	Baden-Württemberg
Gold	Dongwu Gold Group	Dongwu Gold Group	CHINA	CID003663	RMI		Suzhou City	Jiangsu Sheng
Gold	Dosung metal	DSC (Do Sung Corporation)	KOREA, REPUBLIC OF	CID000359	RMI		Gimpo	Gyeonggi-do
Gold Gold Gold	Dowa Dowa Kogyo k.k. Dowa Metalmine Co. Ltd	Dowa Dowa	JAPAN JAPAN JAPAN	CID000401 CID000401 CID000401	RMI RMI RMI		Kosaka Kosaka Kosaka	Akita Akita Akita
Gold Gold	Dowa Metalinine Co. Ltd Dowa Metals & Mining Co. Ltd DSC (Do Sung Corporation)	Dowa Dowa DSC (Do Sung Corporation)	JAPAN JAPAN KOREA, REPUBLIC OF	CID000401 CID000401 CID000359	RMI RMI RMI		Kosaka Kosaka Gimpo	Akita Akita Gyeonggi-do
Gold Gold	Eco-System Recycling Co., Ltd. East Plant Eco-System Recycling Co., Ltd. North Plant	Eco-System Recycling Co., Ltd. East Plant Eco-System Recycling Co., Ltd. North Plant	JAPAN JAPAN	CID000339 CID000425 CID003424	RMI RMI RMI		Honjo Kazuno	Saitama Akita
Gold	Eco-System Recycling Co., Ltd. West Plant	Eco-System Recycling Co., Ltd. West Plant	JAPAN	CID003425	RMI		Okayama	Okayama
Gold	Ekaterinburg	JSC Ekaterinburg Non-Ferrous Metal Processing Plant	RUSSIAN FEDERATION	CID000927	RMI		Verkhnyaya Pyshma	Sverdlovskaya oblast'
Gold	Emerald Jewel Industry India Limited (Unit 1)	Emerald Jewel Industry India Limited (Unit 1)	INDIA	CID003487	RMI		Coimbatore	Tamil Nadu
Gold	Emerald Jewel Industry India Limited (Unit 2)	Emerald Jewel Industry India Limited (Unit 2)	INDIA	CID003488	RMI		Coimbatore	Tamil Nadu
Gold	Emerald Jewel Industry India Limited (Unit 3)	Emerald Jewel Industry India Limited (Unit 3)	INDIA	CID003489	RMI		Coimbatore	Tamil Nadu
Gold	Emerald Jewel Industry India Limited (Unit 4)	Emerald Jewel Industry India Limited (Unit 4)	INDIA	CID003490	RMI		Coimbatore	Tamil Nadu
Gold Gold	Emirates Gold DMCC Federal State Unitary Enterprise Moscow Special Proc	Emirates Gold DMCC	UNITED ARAB EMIRATES RUSSIAN FEDERATION	CID002561 CID001204	RMI RMI		Dubai Obrucheva	Dubayy Moskva
Gold	Fidelity Printers and Refiners Ltd.	Fidelity Printers and Refiners Ltd.	ZIMBABWE	CID002515	RMI		Msasa	Harare
Gold	FSE Novosibirsk Refinery	JSC Novosibirsk Refinery	RUSSIAN FEDERATION	CID000493	RMI		Novosibirsk	Novosibirskaya oblast'
Gold	Fujairah Gold FZC	Fujairah Gold FZC	UNITED ARAB EMIRATES	CID002584	RMI		Fujairah	Al Fujayrah
Gold	Fujhara Refinery	Fujairah Gold FZC	UNITED ARAB EMIRATES	CID002584	RMI		Fujairah	Al Fujayrah
Gold	Fujian Zijin mining stock company gold smelter	Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA	CID002243	RMI		Shanghang	Fujian Sheng
Gold	Geib Refining Corporation	Geib Refining Corporation	UNITED STATES OF AMERICA	CID002459	RMI		Warwick	Rhode Island
Gold	GGC Gujrat Gold Centre Pvt. Ltd.	GGC Gujrat Gold Centre Pvt. Ltd.	INDIA	CID002852	RMI		Ahmedabad	Gujarat
Gold	Gold by Gold Colombia	Gold by Gold Colombia	COLOMBIA	CID003641	RMI		Medellín	Antioquia
Gold Gold	Gold Coast Refinery Gold Mining in Shandong (Laizhou) Limited Company		GHANA CHINA	CID003186 CID001916	RMI RMI		Accra Laizhou	Accra Shandong Sheng
Gold Gold	Gold Refinery of Zijin Mining Group Co., Ltd. Great Wall Precious Metals Co., LTD.	Gold Refinery of Zijin Mining Group Co., Ltd. Great Wall Precious Metals Co., Ltd. of CBPM	CHINA CHINA	CID002243 CID001909	RMI RMI		Shanghang Chengdu Chanadu	Fujian Sheng Sichuan Sheng Sichuan Shang
Gold Gold Gold	Great Wall Precious Metals Co., Ltd. of CBPM Guangdong Gaoyao Co	Great Wall Precious Metals Co., Ltd. of CBPM Guangdong Jinding Gold Limited	CHINA CHINA	CID001909 CID002312	RMI RMI RMI		Chengdu Guangzhou	Sichuan Sheng Guangdong Sheng Guangdong Sheng
Gold Gold	Guangdong Jinding Gold Limited Gujarat Gold Centre Guoda Safina High-Tech Environmental Refinery Co.	Guangdong Jinding Gold Limited GGC Gujrat Gold Centre Pvt. Ltd. Guoda Safina High-Tech Environmental Refinery Co., Ltd.	CHINA INDIA CHINA	CID002312 CID002852 CID000651	RMI RMI RMI		Guangzhou Ahmedabad Zhaoyuan	Guangdong Sheng Gujarat Shandong Sheng
Gold Gold	Hangzhou Fuchunjiang Smelting Co., Ltd. HeeSung Metal Ltd.	Hangzhou Fuchunjiang Smelting Co., Ltd. LT Metal Ltd.	CHINA CHINA KOREA, REPUBLIC OF	CID000671 CID000689	RMI RMI RMI		Fuyang Seo-gu	Zhejiang Sheng Incheon-gwangyeoksi
Gold	Heimerle + Meule GmbH	Heimerle + Meule GmbH	GERMANY	CID000694	RMI		Pforzheim	Baden-Württemberg
Gold	Henan Zhongyuan Gold Refinery Co., Ltd.	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA	CID002224	RMI		Sanmenxia	Henan Sheng
Gold Gold	Henan Zhongyuan Gold Smelter of Zhongjin Gold Co.	. Zhongyuan Gold Smelter of Zhongjin Gold Corporation r Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA CHINA	CID002224 CID002224	RMI RMI		Sanmenxia Sanmenxia	Henan Sheng Henan Sheng
Gold	Heraeus Germany GmbH Co. KG	Heraeus Germany GmbH Co. KG	GERMANY	CID000711	RMI		Hanau	Hessen
Gold	Heraeus Ltd. Hong Kong	Heraeus Metals Hong Kong Ltd.	CHINA	CID000707	RMI		Fanling	Hong Kong SAR
Gold	Heraeus Metals Hong Kong Ltd.	Heraeus Metals Hong Kong Ltd.	CHINA	CID000707	RMI		Fanling	Hong Kong SAR
Gold	Heraeus Precious Metals GmbH & Co. KG	Heraeus Germany GmbH Co. KG	GERMANY	CID000711	RMI		Hanau	Hessen
Gold	Hunan Chenzhou Mining Co., Ltd.	Hunan Chenzhou Mining Co., Ltd.	CHINA	CID000767	RMI		Yuanling	Hunan Sheng
Gold	Hunan Chenzhou Mining Group Co., Ltd.	Hunan Chenzhou Mining Co., Ltd.	CHINA	CID000767	RMI		Yuanling	Hunan Sheng
Gold Gold		Hunan Chenzhou Mining Co., Ltd. I. Hunan Guiyang yinxing Nonferrous Smelting Co., Ltd.	CHINA CHINA	CID000767 CID000773	RMI RMI		Yuanling Chenzhou	Hunan Sheng Hunan Sheng
Gold	Hunan Yu Teng Non-Ferrous Metals Co., Ltd.	Hunan Guiyang yinxing Nonferrous Smelting Co., Ltd.	CHINA	CID000773	RMI		Chenzhou	Hunan Sheng
Gold	HwaSeong CJ CO., LTD.	HwaSeong CJ CO., LTD.	KOREA, REPUBLIC OF	CID000778	RMI		Danwon	Gyeonggi-do
Gold Gold	÷ · · · · · · · · · · · · · · · · · · ·	Industrial Refining Company a Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	BELGIUM CHINA	CID002587 CID000801	RMI RMI		Antwerp Hohhot	Antwerpen Nei Mongol Zizhiqu
Gold	International Precious Metal Refiners	International Precious Metal Refiners	UNITED ARAB EMIRATES	CID002562	RMI		Dubai	Dubayy
Gold	Ishifuku Metal Industry Co., Ltd.	Ishifuku Metal Industry Co., Ltd.	JAPAN	CID000807	RMI		Soka	Saitama
Gold Gold	Istanbul Gold Refinery Italpreziosi	Istanbul Gold Refinery Italpreziosi	TURKEY ITALY	CID000814 CID002765	RMI RMI		Kuyumcukent Arezzo	İstanbul Toscana Dalhi
Gold	JALAN & Company	JALAN & Company	INDIA	CID002893	RMI		New Delhi	Delhi
Gold	Japan Mint	Japan Mint	JAPAN	CID000823	RMI		Osaka	Osaka
Gold	JCC	Jiangxi Copper Co., Ltd.	CHINA	CID000855	RMI		Guixi City	Jiangxi Sheng
Gold	JCC	Jiangxi Copper Co., Ltd.	CHINA	CID000855	RMI		Guixi City	Jiangxi Sheng
Gold	Jiangxi Copper Co., Ltd.	Jiangxi Copper Co., Ltd.	CHINA	CID000855	RMI		Guixi City	Jiangxi Sheng
Gold	Johnson Matthey Canada	Asahi Refining Canada Ltd.	CANADA	CID000924	RMI		Brampton	Ontario
Gold Gold Gold	Johnson Matthey Canada Johnson Matthey Inc. Johnson Matthey Inc. (USA)	Asahi Refining USA Inc. Asahi Refining USA Inc.	UNITED STATES OF AMERICA UNITED STATES OF AMERICA	CID000924 CID000920 CID000920	RMI RMI RMI		Brampton Salt Lake City Salt Lake City	Utah Utah
Gold Gold Gold	Johnson Matthey Limited	Asahi Refining OSA Inc. Asahi Refining Canada Ltd. t JSC Ekaterinburg Non-Ferrous Metal Processing Plant	CANADA RUSSIAN FEDERATION	CID000920 CID000924 CID000927	RMI RMI RMI		Brampton Verkhnyaya Pyshma	Otan Ontario Sverdlovskaya oblast'
Gold Gold Gold	JSC Ekaterinburg Non-Perrous Metal Processing Plant JSC Novosibirsk Refinery JSC Uralelectromed	JSC Novosibirsk Refinery JSC Uralelectromed	RUSSIAN FEDERATION RUSSIAN FEDERATION RUSSIAN FEDERATION	CID000927 CID000493 CID000929	RMI RMI RMI		Novosibirsk Verkhnyaya Pyshma	Novosibirskaya oblast' Sverdlovskaya oblast'
Gold Gold	JX Nippon Mining & Metals Co., Ltd. K.A. Rasmussen	JX Nippon Mining & Metals Co., Ltd. K.A. Rasmussen	JAPAN NORWAY	CID000929 CID000937 CID003497	RMI RMI RMI		Ōita Hamar	Ôita Hedmarken
Gold	Kaloti Precious Metals	Kaloti Precious Metals	UNITED ARAB EMIRATES	CID002563	RMI		Dubai	Dubayy
Gold	Kazakhmys Smelting LLC	Kazakhmys Smelting LLC	KAZAKHSTAN	CID000956	RMI		Balkhash	Qaraghandy oblysy
Gold	Kazzinc	Kazzinc	KAZAKHSTAN	CID000957	RMI		Ust-Kamenogorsk	Qaraghandy oblysy
Gold	Kennecott Utah Copper LLC	Kennecott Utah Copper LLC	UNITED STATES OF AMERICA	CID000969	RMI		Magna	Utah
Gold	KGHM Polska Miedz S.A.	KGHM Polska Miedz Spolka Akcyjna	POLAND	CID002511	RMI		Lubin	Dolnośląskie
Gold	KGHM Polska Miedz Spolka Akcyjna	KGHM Polska Miedz Spolka Akcyjna	POLAND	CID002511	RMI		Lubin	Dolnośląskie
Gold	KGHM Polska Miedź Spółka Akcyjna	KGHM Polska Miedz Spolka Akcyjna	POLAND	CID002511	RMI		Lubin	Dolnośląskie
Gold	Kojima Chemicals Co., Ltd.	Kojima Chemicals Co., Ltd.	JAPAN	CID000981	RMI		Sayama	Saitama

	Kojima Kagaku Yakuhin Co., Ltd Kombinat Gorniczo Hutniczy Miedz Polska Miedz S.A.	Kojima Chemicals Co., Ltd. KGHM Polska Miedz Spolka Akcvina	JAPAN POLAND	CID000981 CID002511		Sayama Lubin	Saitama Dolnośląskie
Gold	Korea Zinc Co., Ltd. Kosak Seiren	Korea Zinc Co., Ltd. Dowa	KOREA, REPUBLIC OF JAPAN	CID002605 CID000401	RMI RMI	Gangnam Kosaka	Seoul-teukbyeolsi Akita
Gold	KUC Kundan Care Products Ltd.	Kundan Care Products Ltd.	UNITED STATES OF AMERICA INDIA	CID000969 CID003463	RMI	Magna Haridwar	Utah Uttarakhand
Gold	Kyrgyzaltyn JSC Kyshtym Copper-Electrolytic Plant ZAO	Kyshtym Copper-Electrolytic Plant ZAO	KYRGYZSTAN RUSSIAN FEDERATION	CID001029 CID002865	RMI	Bishkek Kyshtym	Chüy Chelyabinskaya oblast' C
Gold	La Caridad LAIZHOU SHANDONG L'azurde Company For Jewelry		MEXICO CHINA SAUDI ARABIA	CID000180 CID001916 CID001032		Nacozari Laizhou Riyadh	Sonora Shandong Sheng Ar Riyād
Gold	LinBao Gold Mining Lingbao Gold Co., Ltd.	Lingbao Gold Co., Ltd. Lingbao Gold Co., Ltd.	CHINA CHINA	CID001052 CID001056 CID001056	RMI	Lingbao Lingbao	Henan Sheng Henan Sheng
Gold	Lingbao Jinyuan Tonghui Refinery Co., Ltd. L'Orfebre S.A.	Lingbao Jinyuan Tonghui Refinery Co., Ltd.	CHINA ANDORRA	CID001058 CID002762	RMI	Lingbao Andorra la Vella	Henan Sheng Andorra la Vella
Gold	LS-NIKKO Copper Inc. LT Metal Ltd.	LT Metal Ltd.	KOREA, REPUBLIC OF KOREA, REPUBLIC OF	CID001078 CID000689		Onsan-eup Seo-gu	Ulsan-gwangyeoksi Incheon-gwangyeoksi
Gold	Luoyang Zijin Yinhui Gold Refinery Co., Ltd. Luoyang Zijin Yinhui Gold Smelting	Luoyang Zijin Yinhui Gold Refinery Co., Ltd.	CHINA CHINA	CID001093 CID001093	RMI	Luoyang Luoyang	Henan Sheng Henan Sheng
Gold	Luoyang Zijin Yinhui Metal Smelt Co Ltd Marsam Metals Materion	Luoyang Zijin Yinhui Gold Refinery Co., Ltd. Marsam Metals Materion	CHINA BRAZIL UNITED STATES OF AMERICA	CID001093 CID002606 CID001113	RMI RMI RMI	Luoyang Sao Paulo Buffalo	Henan Sheng São Paulo New York
Gold	Matsuda Sangyo Co., Ltd. MD Overseas		JAPAN INDIA	CID001119 CID003548	RMI	Iruma Rudrapur	Saitama Uttarakhand
Gold	MEM(Sumitomo Group) Metal Concentrators SA (Pty) Ltd.	Sumitomo Metal Mining Co., Ltd.	JAPAN SOUTH AFRICA	CID001798 CID003575	RMI	Saijo Kempton Park	Ehime Gauteng
Gold	Metallix Refining Inc.	Metallix Refining Inc.	MEXICO UNITED STATES OF AMERICA	CID001161 CID003557	RMI	Torreon Greenville	Coahuila de Zaragoza North Carolina
Gold	Metallurgie Hoboken Overpelt Metalor Switzerland	5	BELGIUM SWITZERLAND	CID001980 CID001153	RMI	Hoboken Marin	Antwerpen Neuchâtel
Gold	Metalor Technologies (Hong Kong) Ltd. Metalor Technologies (Singapore) Pte., Ltd. Metalor Technologies (Suzhou) Ltd.	Metalor Technologies (Hong Kong) Ltd. Metalor Technologies (Singapore) Pte., Ltd. Metalor Technologies (Suzhou) Ltd.	CHINA SINGAPORE CHINA	CID001149 CID001152 CID001147		Kwai Chung Singapore Suzhou	Hong Kong SAR South West Jiangsu Sheng
Gold	Metalor Technologies (Suzhou) Etd. Metalor Technologies S.A. Metalor USA Refining Corporation	Metalor Technologies S.A.	SWITZERLAND UNITED STATES OF AMERICA	CID001153 CID001157	RMI RMI	Marin North Attleboro	Neuchâtel Massachusetts
Gold	Metalurgica Met-Mex Penoles S.A. De C.V. Metalúrgica Met-Mex Peñoles S.A. De C.V.	Metalurgica Met-Mex Penoles S.A. De C.V. Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO MEXICO	CID001161 CID001161		Torreon Torreon	Coahuila de Zaragoza Coahuila de Zaragoza
Gold	Met-Mex Pe?oles, S.A. Met-Mex Penoles, S.A.	Metalurgica Met-Mex Penoles S.A. De C.V. Metalurgica Met-Mex Penoles S.A. De C.V.	MEXICO MEXICO	CID001161 CID001161		Torreon Torreon	Coahuila de Zaragoza Coahuila de Zaragoza
Gold	Mitsubishi Materials Corporation Mitsui Kinzoku Co., Ltd.	Mitsubishi Materials Corporation Mitsui Mining and Smelting Co., Ltd.	JAPAN JAPAN	CID001188 CID001193	RMI	Tokyo Takehara	Tokyo Hiroshima
Gold	Mitsui Mining and Smelting Co., Ltd. MMTC-PAMP India Pvt., Ltd. Modeltech Sdn Bhd	Mitsui Mining and Smelting Co., Ltd. MMTC-PAMP India Pvt., Ltd. Modeltech Sdn Bhd	JAPAN INDIA MALAYSIA	CID001193 CID002509 CID002857		Takehara Mewat Kawasan Perindustrian Bukit	Hiroshima Haryana
Gold	Morris and Watson Moscow Special Alloys Processing Plant	Morris and Watson	NEW ZEALAND RUSSIAN FEDERATION	CID002282 CID001204	RMI	Onehunga Obrucheva	Auckland Moskva
Gold	Nadir Metal Rafineri San. Ve Tic. A.S. Nadir Metal Rafineri San. Ve Tic. A.Ş.	Nadir Metal Rafineri San. Ve Tic. A.S. Nadir Metal Rafineri San. Ve Tic. A.S.	TURKEY	CID001220 CID001220	RMI	Bahçelievler Bahçelievler	İstanbul İstanbul
	Navoi Mining and Metallurgical Combinat NH Recytech Company		UZBEKISTAN KOREA, REPUBLIC OF	CID001236 CID003189		Navoi Pyeongtaek-si	Navoiy Gyeonggi-do
Gold	Nihon Material Co., Ltd. Nohon Material Corporation	Nihon Material Co., Ltd. Nihon Material Co., Ltd.	JAPAN JAPAN	CID001259 CID001259	RMI	Noda Noda	Chiba Chiba
Gold		t Ogussa Osterreichische Gold- und Silber-Scheideanstalt GmbH	GERMANY AUSTRIA	CID000113 CID002779	RMI	Hamburg Vienna	Hamburg Wien Wier
Gold	Ohura Precious Metal Industry Co., Ltd.	Ohura Precious Metal Industry Co., Ltd.	AUSTRIA JAPAN	CID002779 CID001325 CID001326		Vienna Nara-shi Kraspovarsk	Wien Nara Kraspovarskiv krav
Gold	OJSC Krastsvetmet OJSC Novosibirsk Refinery	FOJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet) OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet) JSC Novosibirsk Refinery		CID001326 CID001326 CID000493	RMI	Krasnoyarsk Krasnoyarsk Novosibirsk	Krasnoyarskiy kray Krasnoyarskiy kray Novosibirskaya oblast'
Gold	PAMP S.A. Pan Pacific Copper Co Ltd.	PAMP S.A. JX Nippon Mining & Metals Co., Ltd.	SWITZERLAND	CID000435 CID001352 CID000937	RMI	Castel San Pietro Ōita	Ticino Ôita
Gold	Pease & Curren Penglai Penggang Gold Industry Co., Ltd.	Pease & Curren	UNITED STATES OF AMERICA CHINA	CID002872 CID001362	RMI	Warwick Penglai	Rhode Island Shandong Sheng
Gold	Perth Mint Perth Mint (ANZ)	Western Australian Mint (T/a The Perth Mint)	AUSTRALIA AUSTRALIA	CID002030 CID002030	RMI	Newburn Newburn	Western Australia Western Australia
Gold	Planta Recuperadora de Metales SpA Prioksky Plant of Non-Ferrous Metals	Prioksky Plant of Non-Ferrous Metals	RUSSIAN FEDERATION	CID002919 CID001386	RMI	Mejillones Kasimov	Antofagasta Ryazanskaya oblast'
Gold	Produits Artistiques de Métaux PT Aneka Tambang (Persero) Tbk		SWITZERLAND INDONESIA	CID001352 CID001397	RMI	Castel San Pietro Jakarta	Ticino Jakarta Raya
Gold	PX Precinox S.A. PX Précinox S.A.	PX Precinox S.A.	SWITZERLAND SWITZERLAND	CID001498 CID001498	RMI	La Chaux-de-Fonds La Chaux-de-Fonds	Neuchâtel Neuchâtel
Gold	QG Refining, LLC Rand Refinery (Pty) Ltd. Refinery LS-Nikko Copper Inc.	Rand Refinery (Pty) Ltd.	UNITED STATES OF AMERICA SOUTH AFRICA KOREA, REPUBLIC OF	CID003324 CID001512 CID001078	RMI RMI RMI	Fairfield Germiston Onsan-eup	Ohio Gauteng Ulsan-gwangyeoksi
Gold	Refinery of Seemine Gold Co., Ltd. Remondis Argentia B.V.		CHINA NETHERLANDS	CID001078 CID000522 CID002582	RMI	Lanzhou Moerdijk	Gansu Sheng Noord-Brabant
Gold	REMONDIS PMR B.V. Royal Canadian Mint		NETHERLANDS CANADA	CID002582 CID001534	RMI	Moerdijk Ottawa	Noord-Brabant Ontario
Gold	SAAMP Sabin Metal Corp.	SAAMP	FRANCE UNITED STATES OF AMERICA	CID002761 CID001546		Paris Williston	Île-de-France North Dakota
Gold	Safimet S.p.A SAFINA A.S.	Safimet S.p.A SAFINA A.S.	ITALY CZECHIA	CID002973 CID002290	RMI RMI	Arezzo Vestec	Toscana Praha-západ
Gold	Saganoseki Smelter & Refinery Sai Refinery	JX Nippon Mining & Metals Co., Ltd. Sai Refinery	JAPAN INDIA	CID000937 CID002853	RMI RMI	Ōita Parwanoo	Ôita Himachal Pradesh
Gold	Samdok Metal Samduck Precious Metals		-	CID001555 CID001555		Namdong Namdong	Incheon-gwangyeoksi Incheon-gwangyeoksi
Gold	Samwon Metals Corp. Sancus ZFS (L'Orfebre, SA) SAXONIA Edelmetalle GmbH	Samwon Metals Corp. Sancus ZFS (L'Orfebre, SA) SAXONIA Edelmetalle GmbH	KOREA, REPUBLIC OF COLOMBIA GERMANY	CID001562 CID003529 CID002777	RMI	Changwon Barranquilla Halsbrücke	Gyeongsangnam-do Atlántico Sachsen
Gold	SD (Samdok) Metal Sellem Industries Ltd.	Samduck Precious Metals	KOREA, REPUBLIC OF	CID002777 CID001555 CID003540	RMI	Namdong Nouakchott	Incheon-gwangyeoksi Nouakchott Ouest
Gold	SEMPSA Joyería Platería S.A. SEMPSA Joyería Platería S.A.	SEMPSA Joyeria Plateria S.A. SEMPSA Joyeria Plateria S.A.	SPAIN SPAIN	CID001585 CID001585		Madrid Madrid	Madrid, Comunidad de Madrid, Comunidad de
Gold	Sempsa JP (Cookson Sempsa) Shan Dong Huangjin	SEMPSA Joyeria Plateria S.A. Shandong Gold Smelting Co., Ltd.	SPAIN CHINA	CID001585 CID001916		Madrid Laizhou	Madrid, Comunidad de Shandong Sheng
Gold	Shandong Gold Mine(Laizhou) Smelter Co., Ltd. Shandong Gold Smelting Co., Ltd.	Shandong Gold Smelting Co., Ltd. Shandong Gold Smelting Co., Ltd.	CHINA CHINA	CID001916 CID001916	RMI	Laizhou Laizhou	Shandong Sheng Shandong Sheng
Gold	Shandong Guoda Gold Co., Ltd. shandong huangjin	Guoda Safina High-Tech Environmental Refinery Co., Ltd. Shandong Gold Smelting Co., Ltd.	CHINA CHINA	CID000651 CID001916	RMI	Zhaoyuan Laizhou	Shandong Sheng Shandong Sheng
Gold	Shandong Humon Smelting Co., Ltd. Shandong middlings JinYe group Co., LTD	Shandong Humon Smelting Co., Ltd. Shandong Gold Smelting Co., Ltd. Shandang Tianghang Biological Cold Industrial Co., Ltd.	CHINA CHINA CHINA	CID002525 CID001916	RMI	Laizhou Laizhou	Shandong Sheng Shandong Sheng
Gold	Shandong Tarzan Bio-Gold Industry Co., Ltd. Shandong Tiancheng Biological Gold Industrial Co., L Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	Shandong Tiancheng Biological Gold Industrial Co., Ltd. Shandong Tiancheng Biological Gold Industrial Co., Ltd. Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA CHINA CHINA	CID001619 CID001619 CID001622		Laizhou Laizhou Zhaoyuan	Shandong Sheng Shandong Sheng Shandong Sheng
Gold	Shangdong Gold (Laizhou) Shenzhen CuiLu Gold Co., Ltd.	Shandong Gold Smelting Co., Ltd. Shenzhen CuiLu Gold Co., Ltd.	CHINA CHINA	CID001916 CID002750	RMI RMI	Laizhou Shenzhen	Shandong Sheng Guangdong
Gold		Shenzhen Zhonghenglong Real Industry Co., Ltd. Shirpur Gold Refinery Ltd.	CHINA INDIA	CID002527 CID002588	RMI	Shenzhen Mumbai	Guangdong Maharashtra
Gold	Shonan Plant Tanaka Kikinzoku Shyolkovsky	Tanaka Kikinzoku Kogyo K.K. SOE Shyolkovsky Factory of Secondary Precious Metals	JAPAN RUSSIAN FEDERATION	CID001875 CID001756	RMI	Hiratsuka Shyolkovo	Kanagawa Moskovskaja oblast'
Gold	Sichuan Tianze Precious Metals Co., Ltd. Singapore Tanaka	Sichuan Tianze Precious Metals Co., Ltd. Tanaka Kikinzoku Kogyo K.K.		CID001736 CID001875	RMI	Chengdu Hiratsuka	Sichuan Sheng Kanagawa
Gold	Singway Technology Co., Ltd. SMM SOF Shyolkovsky Factory of Secondary Precious Meta	Singway Technology Co., Ltd. Sumitomo Metal Mining Co., Ltd. aSOE Shyolkovsky Factory of Secondary Precious Metals		CID002516 CID001798 CID001756	RMI RMI RMI	Dayuan Saijo Shyolkovo	Taoyuan Ehime Moskovskaja oblast'
Gold		Solar Applied Materials Technology Corp.	TAIWAN, PROVINCE OF CHINA TAIWAN, PROVINCE OF CHINA	CID001761	RMI	Tainan City Tainan City	Tainan Tainan
Gold Gold	Solartech Sovereign Metals	Solar Applied Materials Technology Corp. Sovereign Metals	TAIWAN, PROVINCE OF CHINA INDIA	CID001761 CID003383	RMI RMI	Tainan City Ahmedab	Tainan Gujarat
Gold Gold	Sudan Gold Refinery	State Research Institute Center for Physical Sciences and Technology Sudan Gold Refinery	LITHUANIA SUDAN	CID003153 CID002567	RMI	Vilnius Khartoum	Vilnius Khartoum
Gold	Sumitomo Kinzoku Kozan K.K. Sumitomo Metal Mining Co., Ltd.	Sumitomo Metal Mining Co., Ltd. Sumitomo Metal Mining Co., Ltd.	JAPAN JAPAN	CID001798 CID001798	RMI	Saijo Saijo	Ehime Ehime
Gold	SungEel HiMetal Co., Ltd. SungEel HiTech Super Dragon Technology Co., Ltd.	SungEel HiMetal Co., Ltd.		CID002918 CID002918 CID001810	RMI RMI RMI	Gunsan-si Gunsan-si	Jeollabuk-do Jeollabuk-do Taoyuan
Gold	T.C.A S.p.A Takehara Refinery	Super Dragon Technology Co., Ltd. T.C.A S.p.A Mitsui Mining and Smelting Co., Ltd.	ITALY JAPAN	CID001810 CID002580 CID001193	RMI RMI	Taoyuan Capolona Takehara	Taoyuan Toscana Hiroshima
Gold	Tamano Smelter Tanaka Denshi Kogyo K.K	JX Nippon Mining & Metals Co., Ltd. Tanaka Kikinzoku Kogyo K.K.	JAPAN JAPAN	CID000937 CID001875	RMI	Ōita Hiratsuka	Ôita Kanagawa
Gold Gold	Tanaka Electronics (Hong Kong) Pte. Ltd. TANAKA Electronics (Malaysia) SDN. BHD.	Tanaka Kikinzoku Kogyo K.K. Tanaka Kikinzoku Kogyo K.K.	JAPAN JAPAN	CID001875 CID001875	RMI RMI	Hiratsuka Hiratsuka	Kanagawa Kanagawa
Gold	Tanaka Electronics (Singapore) Pte. Ltd. Tanaka Kikinzoku International	Tanaka Kikinzoku Kogyo K.K. Tanaka Kikinzoku Kogyo K.K.	JAPAN JAPAN	CID001875 CID001875	RMI	Hiratsuka Hiratsuka	Kanagawa Kanagawa
Gold	Tanaka Kikinzoku Kogyo K.K Tanaka Kikinzoku Kogyo K.K.	Tanaka Kikinzoku Kogyo K.K. Tanaka Kikinzoku Kogyo K.K.	JAPAN JAPAN	CID001875 CID001875	RMI	Hiratsuka Hiratsuka	Kanagawa Kanagawa
Gold	Tanaka Precious Metals The Great Wall Gold and Silver Refinery of China The Perth Mint	Tanaka Kikinzoku Kogyo K.K. Great Wall Precious Metals Co., Ltd. of CBPM Western Australian Mint (T/a The Perth Mint)	JAPAN CHINA AUSTRALIA	CID001875 CID001909 CID002030	RMI	Hiratsuka Chengdu Newburn	Kanagawa Sichuan Sheng Western Australia
	The Perth Mint The Refinery of Shandong Gold Mining Co., Ltd. Tokuriki Honten Co., Ltd.	Western Australian Mint (T/a The Perth Mint) Shandong Gold Smelting Co., Ltd. Tokuriki Honten Co., Ltd.	AUSTRALIA CHINA JAPAN	CID002030 CID001916 CID001938		Newburn Laizhou Kuki	Western Australia Shandong Sheng Saitama
Gold	Tokuriki Honten Co., Ltd. Tongling Nonferrous Metals Group Co., Ltd. TongLing Nonferrous Metals Group Holdings Co., Ltd.	Tongling Nonferrous Metals Group Co., Ltd.	JAPAN CHINA CHINA	CID001938 CID001947 CID001947	RMI	Kuki Tongling Tongling	Saltama Anhui Sheng Anhui Sheng
Gold	Tony Goetz NV TOO Tau-Ken-Altyn	Industrial Refining Company	BELGIUM KAZAKHSTAN	CID001947 CID002587 CID002615	RMI RMI	Antwerp Astana	Antwerpen Almaty
Gold Gold	Torecom Ubro-Union of Brazilian Refiners		KOREA, REPUBLIC OF BRAZIL	CID001955 CID002606	RMI RMI	Asan Sao Paulo	Chungcheongnam-do São Paulo
Gold Gold	Ulsan LS Umicore Precious Metals Refining Hoboken	LS-NIKKO Copper Inc. Umicore S.A. Business Unit Precious Metals Refining	KOREA, REPUBLIC OF BELGIUM	CID001078 CID001980	RMI RMI	Onsan-eup Hoboken	Ulsan-gwangyeoksi Antwerpen
Gold	-	Umicore S.A. Business Unit Precious Metals Refining		CID002314 CID001980	RMI	Khwaeng Dok Mai Hoboken Aldon	Krung Thep Maha Nakhon Antwerpen Now York
Gold	United Precious Metal Refining, Inc. Valcambi S.A. Value Trading	United Precious Metal Refining, Inc. Valcambi S.A. Value Trading	UNITED STATES OF AMERICA SWITZERLAND BELGIUM	CID001993 CID002003 CID003617	RMI RMI RMI	Alden Balerna Antwern	New York Ticino Antwerpen
Gold	Value Trading WEEEREFINING Western Australian Mint (T/a The Perth Mint)	Value Trading WEEEREFINING Western Australian Mint (T/a The Perth Mint)	FRANCE AUSTRALIA	CID003617 CID003615 CID002030	RMI	Antwerp Tourville-les-Ifs Newburn	Antwerpen Normandie Western Australia
Gold	WIELAND Edelmetalle GmbH Williams Advanced Materials	WIELAND Edelmetalle GmbH	GERMANY UNITED STATES OF AMERICA	CID002030 CID002778 CID001113	RMI	Pforzheim Buffalo	Baden-Württemberg New York
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ł	Xstrata Yamakin Co., Ltd. Yamamoto Precious Co., Ltd.	CCR Refinery - Glencore Canada Corporation Yamakin Co., Ltd. Yamakin Co., Ltd.	JAPAN JAPAN	CID000185 CID002100 CID002100	RMI RMI	Montréal Konan Konan	Quebec Kochi Kochi								
ł	Yamamoto Precious Metal Co., Ltd.	Yamakin Co., Ltd.	JAPAN	CID002100	RMI	Konan	Kochi								
	Yamamoto Precision Metals Yantai NUS Safina tech environmental Refinery Co. L	Yamakin Co., Ltd. I Guoda Safina High-Tech Environmental Refinery Co., Ltd.	JAPAN CHINA	CID002100 CID000651	RMI RMI	Konan Zhaoyuan	Kochi Shandong Sheng								
ł	Yokohama Metal Co., Ltd.	Yokohama Metal Co., Ltd.	JAPAN	CID002129	RMI	Sagamihara	Kanagawa								
	Yunnan Copper Industry Co., Ltd. Zhao Jin Mining Industry Co Ltd	Yunnan Copper Industry Co., Ltd. Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA CHINA	CID000197 CID001622	RMI RMI	Kunming Zhaoyuan	Yunnan Sheng Shandong Sheng								
	Zhao Yuan Gold Mine Zhao Yuan Gold Smelter of ZhongJin	Shandong Zhaojin Gold & Silver Refinery Co., Ltd. Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA CHINA	CID001622 CID001622	RMI RMI	Zhaoyuan Zhaoyuan	Shandong Sheng Shandong Sheng								
ł	Zhao Yuan Jin Kuang	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA	CID001622	RMI	Zhaoyuan	Shandong Sheng								
	Zhaojin Mining Industry Co., Ltd. zhaojinjinyinyelian	Shandong Zhaojin Gold & Silver Refinery Co., Ltd. Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA CHINA	CID001622 CID001622	RMI RMI	Zhaoyuan Zhaoyuan	Shandong Sheng Shandong Sheng								
ł	Zhaoyuan Gold Group	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	CHINA	CID001622	RMI	Zhaoyuan	Shandong Sheng								
		Zhongyuan Gold Smelter of Zhongjin Gold Corporation D Zhongyuan Gold Smelter of Zhongjin Gold Corporation	CHINA CHINA	CID002224 CID002224	RMI RMI	Sanmenxia Sanmenxia	Henan Sheng Henan Sheng								
		Gold Refinery of Zijin Mining Group Co., Ltd. Gold Refinery of Zijin Mining Group Co., Ltd.	CHINA CHINA	CID002243 CID002243	RMI RMI	Shanghang Shanghang	Fujian Sheng Fujian Sheng								
ł	Smelter not listed			CID002245		Shanghang	rujian Sheriy								
	Smelter not yet identified 5D Production OU	Unknown 5D Production OU	Unknown ESTONIA	CID003926	RMI	Tallinn	Tallinn								
talum	5D Production OÜ	5D Production OU	ESTONIA	CID003926	RMI	Tallinn Cão loão dol Doi	Tallinn Minag Caraia								
		AMG Brasil Changsha South Tantalum Niobium Co., Ltd.	BRAZIL CHINA	CID001076 CID000211	RMI RMI	São João del Rei Changsha	Minas Gerais Hunan Sheng								
	-	Changsha South Tantalum Niobium Co., Ltd. D Block Metals, LLC	CHINA UNITED STATES OF AMERICA	CID000211 CID002504	RMI RMI	Changsha Gastonia	Hunan Sheng North Carolina								
talum	Exotech Inc.	Exotech Inc.	UNITED STATES OF AMERICA	CID000456	RMI	Pompano Beach	Florida								
talum talum		F&X Electro-Materials Ltd. F&X Electro-Materials Ltd.	CHINA CHINA	CID000460 CID000460	RMI RMI	Jiangmen Jiangmen	Guangdong Sheng Guangdong Sheng								
talum	FIR Metals & Resource Ltd.	FIR Metals & Resource Ltd.	CHINA	CID002505	RMI	Zhuzhou	Hunan Sheng								
		Global Advanced Metals Aizu Global Advanced Metals Boyertown	JAPAN UNITED STATES OF AMERICA	CID002558 CID002557	RMI RMI	Aizuwakamatsu Boyertown	Fukushima Pennsylvania								
talum	Guangdong Zhiyuan New Material Co., Ltd.	XIMEI RESOURCES (GUANGDONG) LIMITED	CHINA	CID000616	RMI	Yingde	Guangdong Sheng								
	H.C. Starck Co., Ltd. H.C. Starck Hermsdorf GmbH	TANIOBIS Co., Ltd. H.C. Starck Hermsdorf GmbH	THAILAND GERMANY	CID002544 CID002547	RMI RMI	Map Ta Phut Hermsdorf	Rayong Thüringen								
		H.C. Starck Inc. TANIOBIS Japan Co., Ltd.	UNITED STATES OF AMERICA JAPAN	CID002548 CID002549	RMI RMI	Newton Mito	Massachusetts Ibaraki								
talum	H.C. Starck Smelting GmbH & Co. KG	TANIOBIS Smelting GmbH & Co. KG	GERMANY	CID002550	RMI	Laufenburg	Baden-Württemberg								
	H.C. Starck Tantalum and Niobium GmbH Hengyang King Xing Lifeng New Materials Co., Ltd.	TANIOBIS GmbH Hengyang King Xing Lifeng New Materials Co., Ltd.	GERMANY CHINA	CID002545 CID002492	RMI RMI	Goslar Hengyang	Niedersachsen Hunan Sheng								
talum	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	Jiangxi Dinghai Tantalum & Niobium Co., Ltd.	CHINA	CID002512	RMI	Fengxin	Jiangxi Sheng								
	Jiangxi Tuohong New Raw Material JiuJiang JinXin Nonferrous Metals Co., Ltd.	Jiangxi Tuohong New Raw Material JiuJiang JinXin Nonferrous Metals Co., Ltd.	CHINA CHINA	CID002842 CID000914	RMI RMI	Yichun Jiujiang	Jiangxi Sheng Jiangxi Sheng								
talum	Jiujiang Nonferrous Metals Smelting Company Limite	e Jiujiang Tanbre Co., Ltd.	CHINA	CID000917	RMI	Jiujiang	Jiangxi Sheng								
	Jiujiang Tanbre Co., Ltd. Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	Jiujiang Tanbre Co., Ltd. Jiujiang Zhongao Tantalum & Niobium Co., Ltd.	CHINA CHINA	CID000917 CID002506	RMI RMI	Jiujiang Jiujiang	Jiangxi Sheng Jiangxi Sheng								
talum	KEMET Blue Metals	KEMET de Mexico	MEXICO	CID002539	RMI	Matamoros	Tamaulipas								
		KEMET de Mexico AMG Brasil	MEXICO BRAZIL	CID002539 CID001076	RMI RMI	Matamoros São João del Rei	Tamaulipas Minas Gerais								
alum	Metallurgical Products India Pvt. Ltd. (MPIL)	Metallurgical Products India Pvt., Ltd.	INDIA	CID001163	RMI	District Raigad	Maharashtra								
	Metallurgical Products India Pvt., Ltd. Mineracao Taboca S.A.	Metallurgical Products India Pvt., Ltd. Mineracao Taboca S.A.	INDIA BRAZIL	CID001163 CID001175	RMI RMI	District Raigad Presidente Figueiredo	Maharashtra Amazonas								
talum	Mineração Taboca S.A.	Mineracao Taboca S.A.	BRAZIL	CID001175	RMI	Presidente Figueiredo	Amazonas								
		Mineracao Taboca S.A. Mitsui Mining and Smelting Co., Ltd.	BRAZIL JAPAN	CID001175 CID001192	RMI RMI	Presidente Figueiredo Omuta	Amazonas Fukuoka								
talum	Mitsui Mining and Smelting Co., Ltd.	Mitsui Mining and Smelting Co., Ltd.	JAPAN	CID001192	RMI	Omuta	Fukuoka								
talum	Ningxia Non-Ferrous Metal Smeltery	NPM Silmet AS Ningxia Orient Tantalum Industry Co., Ltd.	ESTONIA CHINA	CID001200 CID001277	RMI RMI	Sillamäe Shizuishan City	Ida-Virumaa Ningxia Huizi Zizhiq								
talum	Ningxia Orient Tantalum Industry Co., Ltd.	Ningxia Orient Tantalum Industry Co., Ltd.	CHINA	CID001277	RMI	Shizuishan City	Ningxia Huizi Zizhiq								
talum	QuantumClean	NPM Silmet AS QuantumClean	ESTONIA UNITED STATES OF AMERICA	CID001200 CID001508	RMI RMI	Sillamäe Carrollton	Ida-Virumaa Texas								
alum	Resind Ind e Com Ltda.	Resind Industria e Comercio Ltda. Resind Industria e Comercio Ltda.	BRAZIL BRAZIL	CID002707 CID002707	RMI RMI	São João del Rei São João del Rei	Minas gerais Minas gerais								
		Resind Industria e Comercio Ltda.	BRAZIL	CID002707 CID002707	RMI	São João del Rei	Minas gerais								
talum		Yanling Jincheng Tantalum & Niobium Co., Ltd. Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA CHINA	CID001522 CID001522	RMI RMI	Zhuzhou Zhuzhou	Hunan Sheng Hunan Sheng								
talum	RFH Yancheng Jinye New Material Technology Co., Lt	traning Sincheng Jinye New Material Technology Co., Ltd.	CHINA	CID003583	RMI	Yecheng City	Jiangsu Sheng								
	Solikamsk Solikamsk Magnesium Works OAO	Solikamsk Magnesium Works OAO Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION RUSSIAN FEDERATION	CID001769 CID001769	RMI RMI	Solikamsk Solikamsk	Permskiy kray Permskiy kray								
talum	Solikamsk Metal Works	Solikamsk Magnesium Works OAO	RUSSIAN FEDERATION	CID001769	RMI	Solikamsk	Permskiy kray								
	Taki Chemical Co., Ltd. Taki Chemicals	Taki Chemical Co., Ltd. Taki Chemical Co., Ltd.	JAPAN JAPAN	CID001869 CID001869	RMI RMI	Harima Harima	Hyogo Hyogo								
talum	TANIOBIS Co., Ltd.	TANIOBIS Co., Ltd.	THAILAND	CID002544	RMI	Map Ta Phut	Hyogo Rayong								
	TANIOBIS GmbH TANIOBIS Japan Co., Ltd.	TANIOBIS GmbH TANIOBIS Japan Co., Ltd.	GERMANY JAPAN	CID002545 CID002549	RMI RMI	Goslar Mito	Niedersachsen Ibaraki								
talum	TANIOBIS Smelting GmbH & Co. KG	TANIOBIS Smelting GmbH & Co. KG	GERMANY	CID002550	RMI	Laufenburg	Baden-Württemberg								
talum talum	Telex Metals ULBA	Telex Metals Ulba Metallurgical Plant JSC	UNITED STATES OF AMERICA KAZAKHSTAN	CID001891 CID001969	RMI RMI	Croydon Ust-Kamenogorsk	Pennsylvania Qaraghandy oblysy								
talum	Ulba Metallurgical Plant JSC	Ulba Metallurgical Plant JSC	KAZAKHSTAN	CID001969	RMI	Ust-Kamenogorsk	Qaraghandy oblysy								
		XIMEI RESOURCES (GUANGDONG) LIMITED XinXing HaoRong Electronic Material Co., Ltd.	CHINA CHINA	CID000616 CID002508	RMI RMI	Yingde YunFu City	Guangdong Sheng Guangdong Sheng								
talum	Yancheng Jinye New Material Technology Co., Ltd.	RFH Yancheng Jinye New Material Technology Co., Ltd. Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA CHINA	CID003583 CID001522	RMI RMI	Yecheng City Zhuzhou	Jiangsu Sheng Hunan Sheng								
	Yanling Jincheng Tantalum Co., Ltd.	Yanling Jincheng Tantalum & Niobium Co., Ltd.	CHINA	CID001522 CID001522	RMI	Zhuzhou	Hunan Sheng								
	タニオビス・ジャパン株式会社 Smelter not listed	TANIOBIS Japan Co., Ltd.	JAPAN	CID002549	RMI	Mito	Ibaraki								
talum	Smelter not yet identified	Unknown	Unknown												
	Alent plc Alpha	Alpha Alpha	UNITED STATES OF AMERICA UNITED STATES OF AMERICA	CID000292 CID000292	RMI RMI	Altoona Altoona	Pennsylvania Pennsylvania								
	Alpha Metals Alpha Metals Korea Ltd.	Alpha Alpha	UNITED STATES OF AMERICA UNITED STATES OF AMERICA	CID000292 CID000292	RMI RMI	Altoona	Pennsylvania Pennsylvania								
	Alpha Metals Taiwan	Alpha	UNITED STATES OF AMERICA	CID000292 CID000292	RMI	Altoona Altoona	Pennsylvania								
	An Vinh Joint Stock Mineral Processing Company Brand IMLI	An Vinh Joint Stock Mineral Processing Company PT Bukit Timah	VIET NAM INDONESIA	CID002703 CID001428	RMI RMI	Quy Hop Pangkal Pinang	Nghệ An Kepulauan Bangka E								
	Brand RBT	PT Refined Bangka Tin	INDONESIA	CID001460	RMI	Sungailiat	Kepulauan Bangka E								
	Chengfeng Metals Co Pte Ltd Chenzhou Yun Xiang mining limited liability company	Yunnan Chengfeng Non-ferrous Metals Co., Ltd. v Chenzhou Yunxiang Mining and Metallurgy Co., Ltd	CHINA CHINA	CID002158 CID000228	RMI RMI	Gejiu Chenzhou	Yunnan Sheng Hunan Sheng								
	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	Chenzhou Yunxiang Mining and Metallurgy Co., Ltd.	CHINA	CID000228	RMI	Chenzhou	Hunan Sheng								
	Chifeng Dajingzi Tin Industry Co., Ltd. China Tin (Hechi)	Chifeng Dajingzi Tin Industry Co., Ltd. China Tin Group Co., Ltd.	CHINA CHINA	CID003190 CID001070	RMI RMI	Chifeng Laibin	Nei Mongol Zizhiqu Guangxi Zhuangzu Z								
	China Tin Group Co., Ltd.	China Tin Group Co., Ltd.	CHINA	CID001070	RMI	Laibin	Guangxi Zhuangzu Z								
		China Tin Group Co., Ltd. Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA CHINA	CID001070 CID002180	RMI	Laibin	Guangxi Zhuangzu Z Yunnan Sheng								
		-		CIDUUZIAU	RMI	Gejiu									
	Cookson	Alpha	UNITED STATES OF AMERICA	CID000292	RMI RMI	Gejiu Altoona	Pennsylvania								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd.	Alpha Alpha	UNITED STATES OF AMERICA UNITED STATES OF AMERICA		RMI	-	Pennsylvania Pennsylvania Pennsylvania								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundicao De Metais E Comercio De Equipamento	Alpha Alpha c CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL	CID000292 CID000292 CID000292 CID003486	RMI RMI RMI RMI RMI	Altoona Altoona Altoona São José	Pennsylvania Pennsylvania Santa Catarina								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundicao De Metais E Comercio De Equipamento CRM Fundição De Metais E Comércio De Equipamento CRM Synergies	Alpha Alpha o CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto o CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto CRM Synergies	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL td BRAZIL SPAIN	CID000292 CID000292 CID000292 CID003486 CID003486 CID003524	RMI RMI RMI RMI RMI RMI RMI	Altoona Altoona Altoona São José São José Toledo	Pennsylvania Pennsylvania Santa Catarina Santa Catarina Toledo								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundicao De Metais E Comercio De Equipamento CRM Fundição De Metais E Comércio De Equipamento CRM Synergies CV Nurjanah	Alpha Alpha co CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto co CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto CRM Synergies PT Aries Kencana Sejahtera	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL td BRAZIL SPAIN INDONESIA	CID000292 CID000292 CID000292 CID003486 CID003486 CID003524 CID00309	RMI RMI RMI RMI RMI RMI RMI RMI	Altoona Altoona Altoona São José São José Toledo Pemali	Pennsylvania Pennsylvania Santa Catarina Santa Catarina Toledo Kepulauan Bangka B								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundição De Metais E Comercio De Equipamento CRM Fundição De Metais E Comércio De Equipamento CRM Synergies CV Nurjanah CV Venus Inti Perkasa Dongguan CiEXPO Environmental Engineering Co., Lt	Alpha Alpha co CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto co CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto CRM Synergies PT Aries Kencana Sejahtera CV Venus Inti Perkasa tr Dongguan CiEXPO Environmental Engineering Co., Ltd.	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL td BRAZIL SPAIN INDONESIA INDONESIA CHINA	CID000292 CID000292 CID003486 CID003486 CID003524 CID003524 CID00309 CID002455 CID003356	RMI RMI RMI RMI RMI RMI RMI RMI RMI	Altoona Altoona Altoona São José São José Toledo Pemali Pangkal Pinang Dongguan	Pennsylvania Pennsylvania Santa Catarina Santa Catarina Toledo Kepulauan Bangka E Kepulauan Bangka E Guangdong Sheng								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundicao De Metais E Comercio De Equipamento CRM Fundição De Metais E Comércio De Equipamento CRM Synergies CV Nurjanah CV Venus Inti Perkasa	Alpha Alpha c CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto c CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto CRM Synergies PT Aries Kencana Sejahtera CV Venus Inti Perkasa	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL td BRAZIL SPAIN INDONESIA INDONESIA	CID000292 CID000292 CID003486 CID003486 CID003524 CID003524 CID00309 CID002455	RMI RMI RMI RMI RMI RMI RMI RMI	Altoona Altoona Altoona São José São José Toledo Pemali Pangkal Pinang	Pennsylvania Pennsylvania Santa Catarina Santa Catarina Toledo Kepulauan Bangka E Kepulauan Bangka E								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundição De Metais E Comercio De Equipamento CRM Fundição De Metais E Comércio De Equipamento CRM Synergies CV Nurjanah CV Venus Inti Perkasa Dongguan CiEXPO Environmental Engineering Co., Lt Dowa Dowa Metaltech Co., Ltd. DS Myanmar	Alpha Alpha c CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto c CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto CRM Synergies PT Aries Kencana Sejahtera CV Venus Inti Perkasa ti Dongguan CiEXPO Environmental Engineering Co., Ltd. Dowa Dowa DS Myanmar	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL td BRAZIL SPAIN INDONESIA INDONESIA CHINA JAPAN JAPAN MYANMAR	CID000292 CID000292 CID003486 CID003486 CID003524 CID003524 CID002455 CID002455 CID003356 CID000402 CID000402 CID003831	RMI RMI RMI RMI RMI RMI RMI RMI RMI RMI	Altoona Altoona São José São José Toledo Pemali Pangkal Pinang Dongguan Kosaka Kosaka Yangon	Pennsylvania Pennsylvania Santa Catarina Santa Catarina Toledo Kepulauan Bangka E Kepulauan Bangka E Guangdong Sheng Akita Akita Yangon								
	Cookson (Alpha Metals Taiwan) Cookson Alpha Metals (Shenzhen) Co., Ltd. CRM Fundição De Metais E Comercio De Equipamento CRM Fundição De Metais E Comércio De Equipamento CRM Synergies CV Nurjanah CV Venus Inti Perkasa Dongguan CiEXPO Environmental Engineering Co., Lt Dowa Dowa Metaltech Co., Ltd. DS Myanmar	Alpha Alpha o CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto o CRM Fundicao De Metais E Comercio De Equipamentos Eletronicos Do Brasil Lto CRM Synergies PT Aries Kencana Sejahtera CV Venus Inti Perkasa to Dongguan CiEXPO Environmental Engineering Co., Ltd. Dowa Dowa	UNITED STATES OF AMERICA UNITED STATES OF AMERICA td BRAZIL td BRAZIL SPAIN INDONESIA INDONESIA CHINA JAPAN JAPAN MYANMAR	CID000292 CID000292 CID003486 CID003486 CID003524 CID003524 CID002455 CID002455 CID003356 CID000402 CID000402 CID003831 CID002572	RMI RMI RMI RMI RMI RMI RMI RMI RMI RMI	Altoona Altoona São José São José Toledo Pemali Pangkal Pinang Dongguan Kosaka Kosaka	Pennsylvania Pennsylvania Santa Catarina Santa Catarina Toledo Kepulauan Bangka E Kepulauan Bangka E Guangdong Sheng Akita Akita								
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Tin Tin	Metallic Materials Branch of Guangxi China Tin Group	PT Timah Tbk Mentok China Tin Group Co., Ltd. Metallic Resources, Inc.	INDONESIA CHINA UNITED STATES OF AMERICA	CID001482 CID001070 CID001142	RMI RMI RMI	Mentok Laibin Twinsburg	Kepulauan Bangka Belitung Guangxi Zhuangzu Zizhiqu Ohio
Tin Tin		Metallo Belgium N.V. Metallo Spain S.L.U.	BELGIUM SPAIN	CID002773 CID002774	RMI RMI	Beerse Berango	Antwerpen Bizkaia
Tin	Mineracao Taboca S.A.	Mineracao Taboca S.A.	BRAZIL	CID001173	RMI	Bairro Guarapiranga	São Paulo
Tin Tin	Mineracao Taboca SA	Mineracao Taboca S.A. Mineracao Taboca S.A.	BRAZIL BRAZIL	CID001173 CID001173	RMI RMI	Bairro Guarapiranga Bairro Guarapiranga	São Paulo São Paulo
Tin Tin	Mining and processing tin-tungsten ore Giang Son - V Minsur	VQB Mineral and Trading Group JSC Minsur	VIET NAM PERU	CID002015 CID001182	RMI RMI	Hanoi Paracas	Ha Noi Ika
Tin	Mitsubishi Materials Corporation	Mitsubishi Materials Corporation	JAPAN	CID001191	RMI	Tokyo	Tokyo
Tin Tin	MSC	Modeltech Sdn Bhd Malaysia Smelting Corporation (MSC)	MALAYSIA MALAYSIA	CID002858 CID001105	RMI RMI	Kawasan Perindustrian Buki Butterworth	Pulau Pinang
Tin Tin	Nankang Nanshan Tin Manufactory Co., Ltd. Nanshan Tin Co. Ltd.	Jiangxi New Nanshan Technology Ltd. Jiangxi New Nanshan Technology Ltd.	CHINA CHINA	CID001231 CID001231	RMI RMI	Ganzhou Ganzhou	Jiangxi Sheng Jiangxi Sheng
Tin	Nghe Tinh Non-Ferrous Metals Joint Stock Company	Nghe Tinh Non-Ferrous Metals Joint Stock Company	VIET NAM	CID002573	RMI	Quy Hop	Nghệ An
		Novosibirsk Processing Plant Ltd. O.M. Manufacturing (Thailand) Co., Ltd.	RUSSIAN FEDERATION THAILAND	CID001305 CID001314	RMI RMI	Novosibirsk Nongkham Sriracha	Novosibirskaya oblast' Chon Buri
Tin	O.M. Manufacturing Philippines, Inc.	O.M. Manufacturing Philippines, Inc.	PHILIPPINES	CID002517	RMI	Rosario	Cavite
Tin Tin		Operaciones Metalurgicas S.A. Operaciones Metalurgicas S.A.	BOLIVIA (PLURINATIONAL STA BOLIVIA (PLURINATIONAL STA		RMI RMI	Oruro Oruro	Oruro Oruro
Tin Tin		Operaciones Metalurgicas S.A. Pongpipat Company Limited	BOLIVIA (PLURINATIONAL STA MYANMAR	TCID001337 CID003208	RMI RMI	Oruro Yangon	Oruro Yangon
Tin	Precious Minerals and Smelting Limited	Precious Minerals and Smelting Limited	INDIA	CID003409	RMI	Jagdalpur	Chhattisgarh
Tin Tin	-	PT Aries Kencana Sejahtera PT Artha Cipta Langgeng	INDONESIA INDONESIA	CID000309 CID001399	RMI RMI	Pemali Sungailiat	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin	PT ATD Makmur Mandiri Jaya	PT ATD Makmur Mandiri Jaya	INDONESIA	CID002503	RMI	Sungailiat	Kepulauan Bangka Belitung
Tin Tin		PT Babel Inti Perkasa PT Babel Surya Alam Lestari	INDONESIA INDONESIA	CID001402 CID001406	RMI RMI	Lintang Badau	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin Tin		PT Bangka Serumpun PT Belitung Industri Sejahtera	INDONESIA INDONESIA	CID003205 CID001421	RMI RMI	Pangkalpinang Pagantungan	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin	PT Bukit Timah	PT Bukit Timah	INDONESIA	CID001428	RMI	Pegantungan Pangkal Pinang	Kepulauan Bangka Belitung
Tin Tin	•	PT Cipta Persada Mulia PT Bukit Timah	INDONESIA INDONESIA	CID002696 CID001428	RMI RMI	Batam Pangkal Pinang	Kepulauan Riau Kepulauan Bangka Belitung
Tin	PT Indra Eramult Logam Industri	PT Bukit Timah	INDONESIA	CID001428	RMI	Pangkal Pinang	Kepulauan Bangka Belitung
Tin Tin		PT Masbro Alam Stania PT Menara Cipta Mulia	INDONESIA INDONESIA	CID003380 CID002835	RMI RMI	Sungailiat Mentawak	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin Tin		PT Mitra Stania Prima PT Mitra Sukses Globalindo	INDONESIA INDONESIA	CID001453 CID003449	RMI RMI	Sungailiat Pangkalpinang	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin	PT Panca Mega Persada	PT Panca Mega Persada	INDONESIA	CID001457	RMI	Sungailiat	Kepulauan Bangka Belitung
Tin Tin		PT Prima Timah Utama PT Putera Sarana Shakti (PT PSS)	INDONESIA INDONESIA	CID001458 CID003868	RMI RMI	Pangkal Pinang Sungailiat	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin	PT Rajawali Rimba Perkasa	PT Rajawali Rimba Perkasa	INDONESIA	CID003381	RMI	Tukak Sadai	Kepulauan Bangka Belitung
Tin Tin		PT Refined Bangka Tin PT Sariwiguna Binasentosa	INDONESIA INDONESIA	CID001460 CID001463	RMI RMI	Sungailiat Pangkal Pinang	Kepulauan Bangka Belitung Kepulauan Bangka Belitung
Tin	PT Stanindo Inti Perkasa	PT Stanindo Inti Perkasa	INDONESIA	CID001468	RMI	Pangkal Pinang	Kepulauan Bangka Belitung
Tin Tin		PT Sukses Inti Makmur PT Timah Tbk Kundur	INDONESIA INDONESIA	CID002816 CID001477	RMI RMI	Sungai Samak Kundur	Kepulauan Bangka Belitung Riau
Tin	PT Timah Nusantara	PT Timah Nusantara	INDONESIA	CID001486	RMI	Tempilang	Kepulauan Bangka Belitung
	PT Timah Tbk Mentok	PT Timah Tbk Kundur PT Timah Tbk Mentok	INDONESIA INDONESIA	CID001477 CID001482	RMI RMI	Kundur Mentok	Riau Kepulauan Bangka Belitung
Tin	PT Tinindo Inter Nusa	PT Tinindo Inter Nusa	INDONESIA	CID001490	RMI	Pangkal Pinang	Kepulauan Bangka Belitung
Tin Tin	PT Tommy Utama	PT Tirus Putra Mandiri PT Tommy Utama	INDONESIA INDONESIA	CID002478 CID001493	RMI RMI	Bogor Sumping Desa Batu Peyu	Jawa Barat Kepulauan Bangka Belitung
Tin	Resind Ind e Com Ltda.	Resind Industria e Comercio Ltda.	BRAZIL	CID002706	RMI	São João del Rei	Minas gerais
Tin Tin	Resind Indústria e Comércio Ltda.	Resind Industria e Comercio Ltda. Resind Industria e Comercio Ltda.	BRAZIL	CID002706 CID002706	RMI RMI	São João del Rei São João del Rei	Minas gerais Minas gerais
Tin Tin	Rui Da Hung	Rui Da Hung Tin Smelting Branch of Yunnan Tin Co., Ltd.	TAIWAN, PROVINCE OF CHINA CHINA		RMI RMI	Longtan Shiang Taoyuan Gejiu	Taoyuan Yunnan Sheng
Tin	Soft Metais Ltda.	Soft Metais Ltda.	BRAZIL	CID001758	RMI	Bebedouro	São Paulo
Tin Tin		Super Ligas Thai Nguyen Mining and Metallurgy Co., Ltd.	BRAZIL VIET NAM	CID002756 CID002834	RMI RMI	Piracicaba Thai Nguyen	São Paulo Thái Nguyên
Tin	Thai Solder Industry Corp., Ltd.	Thaisarco	THAILAND	CID001898	RMI	Amphur Muang	Phuket
Tin Tin	Thailand Smelting & Refining Co Ltd Thaisarco	Thaisarco Thaisarco	THAILAND THAILAND	CID001898 CID001898	RMI RMI	Amphur Muang Amphur Muang	Phuket Phuket
Tin	The Gejiu cloud new colored electrolytic	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA	CID001908	RMI	Gejiu	Yunnan Sheng
Tin Tin	Tin Smelting Branch of Yunnan Tin Co., Ltd.	Tin Smelting Branch of Yunnan Tin Co., Ltd. Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA CHINA	CID002180 CID002180	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin Tin	Tin Technology & Refining	Tin Technology & Refining Mineracao Taboca S.A.		CID003325 CID001173	RMI RMI	West Chester Bairro Guarapiranga	Pennsylvania São Paulo
Tin	Tuyen Quang Non-Ferrous Metals Joint Stock Compar	Tuyen Quang Non-Ferrous Metals Joint Stock Company	VIET NAM	CID002574	RMI	Tan Quang	Tuyên Quang
Tin Tin	Unit Timah Kundur PT Tambang	PT Timah Tbk Kundur VQB Mineral and Trading Group JSC	INDONESIA VIET NAM	CID001477 CID002015	RMI RMI	Kundur Hanoi	Riau Ha Noi
Tin	White Solder Metalurgia e Mineracao Ltda.	White Solder Metalurgia e Mineracao Ltda.	BRAZIL	CID002036	RMI	Ariquemes	Rondônia
Tin Tin		White Solder Metalurgia e Mineracao Ltda. White Solder Metalurgia e Mineracao Ltda.	BRAZIL BRAZIL	CID002036 CID002036	RMI RMI	Ariquemes Ariquemes	Rondônia Rondônia
Tin	XiHai - Liuzhou China Tin Group Co Itd	China Tin Group Co., Ltd.	CHINA	CID001070	RMI	Laibin	Guangxi Zhuangzu Zizhiqu
Tin Tin		Tin Smelting Branch of Yunnan Tin Co., Ltd. Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA CHINA	CID002180 CID001908	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin	Yunnan Adventure Co., Ltd.	Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA	CID002158	RMI	Gejiu	Yunnan Sheng
		Yunnan Chengfeng Non-ferrous Metals Co., Ltd. Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA CHINA	CID002158 CID002158	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin	YunNan Gejiu Yunxin Electrolyze Limited	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.	CHINA	CID001908	RMI	Gejiu	Yunnan Sheng
Tin Tin	• • • •	Gejiu Zili Mining And Metallurgy Co., Ltd. Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA CHINA	CID000555 CID002158	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin	Yunnan Tin Company Limited	Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA	CID002180	RMI	Gejiu	Yunnan Sheng
Tin Tin	Yunnan wind Nonferrous Metals Co., Ltd.	Tin Smelting Branch of Yunnan Tin Co., Ltd. Yunnan Chengfeng Non-ferrous Metals Co., Ltd.	CHINA CHINA	CID002180 CID002158	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin Tin	Yunnan Xi YE	Tin Smelting Branch of Yunnan Tin Co., Ltd. Yunnan Yunfan Non-ferrous Metals Co., Ltd.	CHINA CHINA	CID002180 CID003397	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin	Yuntinic Resources	Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA	CID002180	RMI	Gejiu	Yunnan Sheng
Tin Tin	· · · ·	Gejiu Yunxin Nonferrous Electrolysis Co., Ltd. Tin Smelting Branch of Yunnan Tin Co., Ltd.	CHINA CHINA	CID001908 CID002180	RMI RMI	Gejiu Gejiu	Yunnan Sheng Yunnan Sheng
Tin	Smelter not listed						
Tin Tungsten	,	Unknown A.L.M.T. Corp.	Unknown JAPAN	CID000004	RMI	Toyama City	Toyama
-	•	A.L.M.T. Corp. ACL Metais Eireli	JAPAN BRAZIL	CID000004 CID002833	RMI RMI	Toyama City Araçariguama	Toyama São Paulo
Tungsten	Albasteel Industria e Comercio de Ligas Para Fundica	Albasteel Industria e Comercio de Ligas Para Fundicao Ltd.	BRAZIL	CID003427	RMI	Sao Paulo	São Paulo
-	•	A.L.M.T. Corp. A.L.M.T. Corp.	JAPAN JAPAN	CID000004 CID000004	RMI RMI	Toyama City Toyama City	Toyama Toyama
Tungsten	ALMT Sumitomo Group	A.L.M.T. Corp.	JAPAN	CID000004	RMI	Toyama City	Toyama
5		Artek LLC Asia Tungsten Products Vietnam Ltd.	RUSSIAN FEDERATION VIET NAM	CID003553 CID002502	RMI RMI	Moscow Vinh Bao District	Moskva Hai Phong
Tungsten	ATI Metalworking Products	Kennametal Huntsville	UNITED STATES OF AMERICA	CID000105	RMI	Huntsville	Alabama
	•	Kennametal Huntsville Guangdong Xianglu Tungsten Co., Ltd.	UNITED STATES OF AMERICA CHINA	CID000105 CID000218	RMI RMI	Huntsville Chaozhou	Alabama Guangdong Sheng
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	Chenzhou Diamond Tungsten Products Co., Ltd.	CHINA	CID002513	RMI	Chenzhou	Hunan Sheng
Tungsten		China Molybdenum Tungsten Co., Ltd. China Molybdenum Tungsten Co., Ltd.	CHINA CHINA	CID002641 CID002641	RMI RMI	Luoyang Luoyang	Henan Sheng Henan Sheng
Tungsten		China Molybdenum Tungsten Co., Ltd.	CHINA	CID002641 CID000258	RMI RMI	Luoyang Ganzhou	Henan Sheng Jiangxi Sheng
Tungsten Tungsten	China MuYe Tungsten Co,. Ltd.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Hezhou	Guangxi Zhuangzu Zizhiqu
Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd.	Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd.	CHINA CHINA	CID000281	RMI	Araquari	Santa Catarina Fujian Sheng
Tungsten Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda			CID003468	RMI RMI RMI	-	, <del>.</del>
Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten	CHINA BRAZIL CHINA CHINA	CID003468 CID003401 CID003609	RMI RMI RMI	Longyan Longyan	Fujian Sheng
Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd.	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd.	CHINA BRAZIL CHINA	CID003468 CID003401	RMI RMI	Longyan	Fujian Sheng Jiangxi Sheng Jiangxi Sheng
Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd.	CHINA BRAZIL CHINA CHINA CHINA CHINA CHINA	CID003468 CID003401 CID003609 CID002645 CID000875 CID002315	RMI RMI RMI RMI RMI RMI	Longyan Longyan Ganzhou Ganzhou Ganzhou	Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng
Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd.	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd.	CHINA BRAZIL CHINA CHINA CHINA CHINA CHINA CHINA CHINA	CID003468 CID003401 CID003609 CID002645 CID002875 CID002315 CID002494 CID003417	RMI RMI RMI RMI RMI	Longyan Longyan Ganzhou Ganzhou	Jiangxi Sheng Jiangxi Sheng
Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. GEM Co., Ltd. Global Tungsten & Powders Corp.	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. Jingmen Dewei GEM Tungsten Resources Recycling Co., Ltd. Global Tungsten & Powders Corp.	CHINA BRAZIL CHINA CHINA CHINA CHINA CHINA CHINA CHINA UNITED STATES OF AMERICA	CID003468 CID003401 CID003609 CID002645 CID000875 CID002315 CID002494 CID003417 CID00568	RMI RMI RMI RMI RMI RMI RMI RMI	Longyan Longyan Ganzhou Ganzhou Ganzhou Shenzhen Towanda	Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Guangdong Sheng Pennsylvania
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Tungsten Tungsten	China MuYe Tungsten Co,. Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. GEM Co., Ltd. Global Tungsten & Powders Corp. GTP Guangdong Xianglu Tungsten Co., Ltd. H.C. Starck Smelting GmbH & Co. KG H.C. Starck Tungsten GmbH Han River Pelican State Alloy Co., Ltd. HANNAE FOR T Co., Ltd. Human Chun-Chang non-ferrous Smelting & Concentr Hunan Chenzhou Mining Co., Ltd.	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. Jingmen Dewei GEM Tungsten Resources Recycling Co., Ltd. Global Tungsten & Powders Corp. Global Tungsten & Powders Corp. Global Tungsten & Powders Corp. Guangdong Xianglu Tungsten Co., Ltd. TANIOBIS Smelting GmbH & Co. KG H.C. Starck Tungsten GmbH Ganzhou Jiangwu Ferrotungsten Co., Ltd. HANNAE FOR T Co., Ltd. Hunan Chunchang Nonferrous Metals Co., Ltd. Hunan Chenzhou Mining Co., Ltd.	CHINA BRAZIL CHINA CHINA CHINA CHINA CHINA CHINA CHINA UNITED STATES OF AMERICA UNITED STATES OF AMERICA UNITED STATES OF AMERICA CHINA GERMANY GERMANY CHINA KOREA, REPUBLIC OF CHINA CHINA	CID003468 CID003401 CID003609 CID002645 CID002315 CID002494 CID003417 CID000568 CID000568 CID000568 CID002542 CID002541 CID002541 CID002541 CID002769 CID000766	RMI RMI RMI RMI RMI RMI RMI RMI RMI RMI	Longyan Longyan Ganzhou Ganzhou Ganzhou Ganzhou Shenzhen Towanda Towanda Chaozhou Laufenburg Goslar Ganzhou Dangjin-si Hengyang Yuanling	Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Guangdong Sheng Pennsylvania Pennsylvania Guangdong Sheng Baden-Württemberg Niedersachsen Jiangxi Sheng Chungcheongnam-do Hunan Sheng Hunan Sheng
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Tungsten Tungsten	China MuYe Tungsten Co., Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Haichuang Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. Gibal Tungsten & Powders Corp. GTP Guangdong Xianglu Tungsten Co., Ltd. H.C. Starck Smelting GmbH & Co. KG H.C. Starck Smelting GmbH & Co. KG H.C. Starck Tungsten GmbH Han River Pelican State Alloy Co., Ltd. Human Chun-Chang non-ferrous Smelting & Concentu Hunan Chenzhou Mining Goup Co., Ltd. Hunan Chenzhou Mining Group Co., Ltd. Hugometallurg, JSC Japan New Metals Co., Ltd. Jiangxi Tonggu Non-ferrous Metals Co., Ltd. Jiangxi Tungsten Industry Group Co. Ltd. Jiangxi Tungsten Industry Group Co. Ltd. Jiangxi Tungsten Industry Co., Ltd. Jiangxi Xinsheng Tungsten Industry Co., Ltd. Jiangxi Xinsheng Tungsten Industry Co., Ltd. Jiangxi Xinsheng Tungsten Resources Recycling C JSC "Kirovgrad Hard Alloys Plant" Kennametal Fallon Kennametal Fallon Kennametal Huntsville KGETS Co., Ltd. LiC Vostok Malipo Haiyu Tungsten Co., Ltd. Masan High-Tech Materials Masan Tungsten Chemical LLC (MTC) Moliren Ltd. Niagara Refining LLC	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. Jingmen Dewei GEM Tungsten Resources Recycling Co., Ltd. Global Tungsten & Powders Corp. Global Tungsten GmbH & Co. KG H.C. Starck Tungsten GmbH Ganzhou Jiangwu Ferrotungsten Co., Ltd. HANNAE FOR T Co., Ltd. Hunan Chunchang Nonferrous Metals Co., Ltd. Hunan Chenzhou Mining Co., Ltd. Hunan Chenzhou Mining Co., Ltd. Hunan Chenzhou Mining Co., Ltd. Hunan Chunchang Nonferrous Metals Co., Ltd. Hydrometallurg, JSC Japan New Metals Co., Ltd. Jiangxi Gan Bei Tungsten Products Co., Ltd. Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd. Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd. Jiangxi Tunggu Non-ferrous Metallurgical & Chemical Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Jiangxi Xinsheng Tungsten Products Co., Ltd. Jiangxi Xinsheng Tungsten Industry Co., Ltd. Jiangxi Yaosheng Tungsten Resources Recycling Co., Ltd. Jiangxi Yaosheng Tungsten Resources Recycling Co., Ltd. Jiangxi Yaosheng Tungsten Co., Ltd. Lianyou Metals Co., Ltd. Lianyou Metals Co., Ltd. Kennametal Fallon Kennametal Fallon Kennametal Huntsville KGETS Co., Ltd. Lianyou Metals Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Masan High-Tech Materials Masan High-Tech Materials Maipor Htd. Niagara Refining LLC NPP Tyazhmetprom LLC	CHINA BRAZIL CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA UNITED STATES OF AMERICA UNITED STATES OF AMERICA UNITED STATES OF AMERICA CHINA GERMANY GERMANY CHINA KOREA, REPUBLIC OF CHINA CHI	CID003468 CID003401 CID003609 CID002645 CID002315 CID002494 CID003417 CID003417 CID00568 CID000568 CID000568 CID002542 CID002541 CID002541 CID002541 CID00766 CID000766 CID000766 CID000769 CID000769 CID002649 CID002649 CID002551 CID002551 CID002313 CID002318 CID002318 CID002318 CID002317 CID002316 CID002317 CID002316 CID003407 CID003408 CID003407 CID003408 CID003407 CID003643 CID002543 CID002543 CID002543 CID002543 CID002845	RMI         R	Longyan Longyan Ganzhou Ganzhou Ganzhou Ganzhou Shenzhen Towanda Towanda Chaozhou Laufenburg Goslar Ganzhou Dangjin-si Hengyang Yuanling Yuanling Yuanling Hengyang Nalchik Akita City Ganzhou Xiushui Gao'an Tonggu Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Shenzhen Kirovgrad Fallon Huntsville Siheung-si Fangliao Kostroma Nanfeng Xiaozhai Dai Tu Dai Tu Roshal	Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Guangdong Sheng Pennsylvania Guangdong Sheng Baden-Württemberg Niedersachsen Jiangxi Sheng Chungcheongnam-do Hunan Sheng Hunan Sheng Hunan Sheng Hunan Sheng Hunan Sheng Jiangxi Sheng
Tungsten Tungsten	China MuYe Tungsten Co., Ltd. Chongyi Zhangyuan Tungsten Co., Ltd. CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Products Co., Ltd. Ganzhou Jiangwu Ferrotungsten Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. GEM Co., Ltd. Global Tungsten & Powders Corp. GTP Guangdong Xianglu Tungsten Co., Ltd. H.C. Starck Smelting GmbH & Co. KG H.C. Starck Smelting GmbH & Co. KG H.C. Starck Tungsten GmbH Han River Pelican State Alloy Co., Ltd. HANNAE FOR T Co., Ltd. Human Chun-Chang non-ferrous Smelting & Concentr Hunan Chenzhou Mining Co., Ltd. Hunan Chenzhou Mining Group Co., Ltd. Hydrometallurg, JSC Japan New Metals Co., Ltd. Jiangxi Gan Bei Tungsten Co., Ltd. Jiangxi Gan Bei Tungsten Co., Ltd. Jiangxi Tonggu Non-ferrous Metals Co., Ltd. Jiangxi Tonggu Non-ferrous Metals Co., Ltd. Jiangxi Tonggu Non-ferrous Metals Co., Ltd. Jiangxi Tonggu Non-ferrous Metals Co., Ltd. Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Jiangxi Tungsten Co. Ltd. Jiangxi Tungsten Industry Group Co. Ltd. Jiangxi Yaosheng Tungsten Industry Co., Ltd. Jiangxi Yaosheng Tungsten Industry Co., Ltd. Jiangxi Yaosheng Tungsten Resources Recycling C JSC "Kirovgrad Hard Alloys Plant" Kennametal Huntsville KGETS Co., Ltd. Lianyou Metals Co., Ltd. LiLC Vostok Malipo Haiyu Tungsten Co., Ltd. Maipo Hai	CNMC (Guangxi) PGMA Co., Ltd. Cronimet Brasil Ltda Fujian Ganmin RareMetal Co., Ltd. Fujian Xinlu Tungsten Ganzhou Haichuang Tungsten Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Ganzhou Seadragon W & Mo Co., Ltd. Jingmen Dewei GEM Tungsten Resources Recycling Co., Ltd. Global Tungsten & Powders Corp. Global Tungsten GmbH & Co. KG H.C. Starck Tungsten GmbH Ganzhou Jiangwu Ferrotungsten Co., Ltd. HANNAE FOR T Co., Ltd. Hunan Chunchang Nonferrous Metals Co., Ltd. Hunan Chenzhou Mining Co., Ltd. Hunan Chenzhou Mining Co., Ltd. Hunan Chenzhou Mining Co., Ltd. Hunan Chunchang Nonferrous Metals Co., Ltd. Hydrometallurg, JSC Japan New Metals Co., Ltd. Jiangxi Gan Bei Tungsten Products Co., Ltd. Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd. Jiangxi Minmetals Gao'an Non-ferrous Metals Co., Ltd. Jiangxi Tunggu Non-ferrous Metallurgical & Chemical Co., Ltd. Ganzhou Huaxing Tungsten Products Co., Ltd. Jiangxi Xinsheng Tungsten Products Co., Ltd. Jiangxi Xinsheng Tungsten Industry Co., Ltd. Jiangxi Yaosheng Tungsten Resources Recycling Co., Ltd. Jiangxi Yaosheng Tungsten Resources Recycling Co., Ltd. Jiangxi Yaosheng Tungsten Co., Ltd. Lianyou Metals Co., Ltd. Lianyou Metals Co., Ltd. Kennametal Fallon Kennametal Fallon Kennametal Huntsville KGETS Co., Ltd. Lianyou Metals Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Maipo Haiyu Tungsten Co., Ltd. Masan High-Tech Materials Masan High-Tech Materials Maipor Htd. Niagara Refining LLC NPP Tyazhmetprom LLC	CHINA BRAZIL CHINA CHINA CHINA CHINA CHINA CHINA CHINA CHINA UNITED STATES OF AMERICA UNITED STATES OF AMERICA UNITED STATES OF AMERICA CHINA GERMANY GERMANY CHINA KOREA, REPUBLIC OF CHINA CHI	CID003468 CID003401 CID003609 CID002645 CID002315 CID002494 CID003417 CID003417 CID00568 CID000568 CID002542 CID002541 CID002541 CID002541 CID003978 CID000766 CID000766 CID000766 CID000766 CID000769 CID002649 CID002649 CID002551 CID002551 CID002313 CID002313 CID002313 CID002316 CID002317 CID002316 CID003407 CID003407 CID003408 CID003407 CID003643 CID002543 CID002543 CID002543 CID002543 CID002543 CID002543 CID002543 CID002543	RMI         R	Longyan Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Shenzhen Towanda Towanda Chaozhou Laufenburg Goslar Ganzhou Dangjin-si Hengyang Yuanling Yuanling Hengyang Nalchik Akita City Ganzhou Xiushui Gao'an Tonggu Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Ganzhou Shenzhen Kirovgrad Fallon Huntsville Siheung-si Fangliao Kostroma Nanfeng Xiaozhai Dai Tu Dai Tu Roshal Depew Kopeysk	Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Jiangxi Sheng Guangdong Sheng Pennsylvania Guangdong Sheng Baden-Württember Niedersachsen Jiangxi Sheng Chungcheongnam- Hunan Sheng Hunan Sheng Hunan Sheng Hunan Sheng Jiangxi Sheng

Tungsten	Philippine Chuangxin Industrial Co., Inc.	Philippine Chuangxin Industrial Co., Inc.	PHILIPPINES	CID002827	RMI	Marilao	Bulacan
Tungsten	TANIOBIS Smelting GmbH & Co. KG	TANIOBIS Smelting GmbH & Co. KG	GERMANY	CID002542	RMI	Laufenburg	Baden-Württemberg
Tungsten	Unecha Refractory metals plant	Unecha Refractory metals plant	RUSSIAN FEDERATION	CID002724	RMI	Unecha	Bryanskaya oblast'
Tungsten	WBH	Wolfram Bergbau und Hutten AG	AUSTRIA	CID002044	RMI	St. Martin i-S	Steiermark
Tungsten	WBH,Wolfram [Austria]	Wolfram Bergbau und Hutten AG	AUSTRIA	CID002044	RMI	St. Martin i-S	Steiermark
Tungsten	Wolfram Bergbau und Hutten AG	Wolfram Bergbau und Hutten AG	AUSTRIA	CID002044	RMI	St. Martin i-S	Steiermark
Tungsten	Wolfram Bergbau und Hütten AG	Wolfram Bergbau und Hutten AG	AUSTRIA	CID002044	RMI	St. Martin i-S	Steiermark
Tungsten	Xiamen H.C.	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA	CID002320	RMI	Xiamen	Fujian Sheng
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	Xiamen Tungsten (H.C.) Co., Ltd.	CHINA	CID002320	RMI	Xiamen	Fujian Sheng
Tungsten	Xiamen Tungsten Co., Ltd.	Xiamen Tungsten Co., Ltd.	CHINA	CID002082	RMI	Xiamen	Fujian Sheng
Tungsten	Xinfeng Huarui Tungsten & Molybdenum New Mater	ria Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.	CHINA	CID002830	RMI	Ganzhou	Jiangxi Sheng
Tungsten	YUDU ANSHENG TUNGSTEN CO., LTD.	YUDU ANSHENG TUNGSTEN CO., LTD.	CHINA	CID003662	RMI	Ganzhou City	Jiangxi Sheng
Tungsten	Zhangyuan Tungsten Co Ltd	Chongyi Zhangyuan Tungsten Co., Ltd.	CHINA	CID000258	RMI	Ganzhou	Jiangxi Sheng
Tungsten	<b>洛阳栾川</b> 钼业集团钨业有限公司	China Molybdenum Tungsten Co., Ltd.	CHINA	CID002641	RMI	Luoyang	Henan Sheng
Tungsten	Smelter not listed						
Tungsten	Smelter not yet identified	Unknown	Unknown				