



**TITANIUM**  
**STAINLESS STEEL**  
**COBALT CHROME MOLY**



## **MEDICAL GRADE MATERIALS**

### **MATERIALS FOR MEDICAL IMPLANTS & INSTRUMENTATION**

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- Trauma
- Dental, Maxillofacial
- Surgical Instrumentation

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## MEDICAL GRADE MATERIALS

| IMPLANT GRADES       |   |                  |                   |                 |
|----------------------|---|------------------|-------------------|-----------------|
| TITANIUM             | SPECIFICATION   | SHEET/COIL RANGE | BAR RANGE         | PLATE RANGE     |
| <b>CP Grade 2</b>    | ASTM F 67/B 265/B 348, UNS R50400, AMS 4902                   | 0.016" – 0.500"  | 0.125" – 0.500"   | 0.250" – 0.500" |
| <b>CP Grade 3</b>    | ASTM F 67/B 265, UNS R50550, AMS 4900                         | 0.012" – 0.063"  |                   |                 |
| <b>CP Grade 4</b>    | ASTM F 67/B 265/B 348, UNS R50700, AMS 4901/4921              | 0.012" – 0.080"  | 0.250"            | 0.250"          |
| <b>Ti-6AL-4V</b>     | ASTM F 1472/B 265/B 348, UNS R56400, AMS 4911/4928/4967/6931  | 0.012" – 0.125"  | 0.2499" – 8.500"  | 0.250" – 4.000" |
| <b>Ti-6AL-4V ELI</b> | ASTM F 136/B 265 GR 23/B 348 GR 23, UNS R56401, AMS 4930/6932 |                  | 0.125" – 3.000"   | 0.250" – 1.000" |
| STAINLESS            | SPECIFICATION   | SHEET/COIL RANGE | BAR RANGE         | PLATE RANGE     |
| <b>316LS/316LVM</b>  | ASTM F138   |                  | 0.1875" – 0.4375" |                 |
| COBALT CHROME MOLY   | SPECIFICATION   | SHEET/COIL RANGE | BAR RANGE         | PLATE RANGE     |
| <b>CCM</b>           | ASTM F 1537, UNS N06617                                       |                  | 0.250" – 2.000"   |                 |

| INSTRUMENTATION GRADES |   |                  |                        |                  |
|------------------------|---|------------------|------------------------|------------------|
| STAINLESS              | SPECIFICATION   | SHEET/COIL RANGE | BAR RANGE              | PLATE RANGE      |
| <b>Custom 455</b>      | ASTM F 899, UNS S45500, AMS 5617  |                  | 0.1875" – 2.000"       |                  |
| <b>Custom 465*</b>     | ASTM F 899, UNS S46500, AMS 5936  |                  | 0.3125" – 1.250"       |                  |
| <b>17-4 PH</b>         | ASTM A 693, UNS S17400, AMS 5604, ASME SA 693, W.NR 1.4542  | 0.029" – 0.130"  | 0.250" – 5.000"        | 0.1875" – 2.500" |
| <b>301</b>             | ASTM A 240/A 666, UNS S30100, AMS 5901, ASME SA 240/SA 666, EN 1.4310   | 0.018" – 0.130"  |                        |                  |
| <b>303</b>             | ASTM A 895, UNS S30300, AMS 5640 Chem Only  |                  |                        | 0.1875" – 4.000" |
| <b>304/304L</b>        | ASTM A 240, UNS S30400/S30403, AMS 5513/5511/5647, ASME SA 240, W.NR 1.4307,  | 0.018" – 0.130"  | 2.000", 4.000", 7.250" |                  |
| <b>316/316L</b>        | ASTM A 167/A 240/F 138/ F 899, UNS S31600/S31603, AMS 5524/5507, ASME SA 167/SA 240, W.NR/EN 1.4404, W.NR/EN 1.4401 | 0.018" – 0.130"  | 0.125" – 3.000"        |                  |
| <b>410</b>             | ASTM A 240/A 276/A 493/F 899, UNS S41000, AMS 5504/5613, ASME SA 240, EN 1.4006                                     | 0.018" – 0.145"  | 1.000" – 8.000"        | 0.1875"-1.000"   |

United Performance Metals medical grade materials are certified  
 ISO 13485, AS9100D, ISO 9001:2015.

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