

Products & Sizes

Coil	Sheet	Precision Reroll Strip
0.016" - 0.1250"	0.016" - 0.1250"	0.0008" - 0.015"

301-1/4 Chemical Composition

	Element	Min	Max
C	Carbon	-	0.15
Mn	Manganese	-	2.00
P	Phosphorus	-	0.045
S	Sulfur	-	0.030
Si	Silicon	-	1.00
Cr	Chromium	16.00	18.00
Ni	Nickel	6.00	8.00
N	Nitrogen	-	0.10

Industry Standards

- PWA-LCS
- GE Aircraft Engine (GT193)
- GE Aviation S-SPEC-35 AeDMS S-400
- RR SABRe Edition 2
- DFARS Compliant

Industry Applications

- Aircraft structural parts
- Trailer bodies
- Architectural (roof drainage/door frames, etc.)
- Auto body trim and wheel covers
- Utensils and tablewear
- Conveyor parts

Physical Properties

Property	Value
Density	0.2850 lb/in ³ (7.88g/cm ³)
Melting Range	2250 - 2950°F (1399 - 1421°C)
Specific Gravity	8.03
Modulus of Elasticity in Tension	28x10 ⁶ psi (193 GPa)
Magnetic Permeability	H/m Annealed 1.02 Max @ 200 H

Linear Coefficient of Thermal Expansion			
Temperature Range		Coefficients	
°C	°F	cm/cm°C	in/in/°F
20-100	68-212	$16.6 \cdot 10^{-6}$	$9.2 \cdot 10^{-6}$
20-300	68-572	$17.6 \cdot 10^{-6}$	$9.8 \cdot 10^{-6}$
20-500	68-932	$18.6 \cdot 10^{-6}$	$10.3 \cdot 10^{-6}$
20-700	68-1292	$19.5 \cdot 10^{-6}$	$10.8 \cdot 10^{-6}$
20-871	68-1600	$19.8 \cdot 10^{-6}$	$11.0 \cdot 10^{-6}$

Thermal Conductivity			
Temperature Range		Coefficients	
°C	°F	W/m·K	Btu/(hr/ft ² /hr/°F/ft)
20-100	68-212	16.30	9.40
20-500	68-932	21.40	12.4

Specific Heat			
Temperature Range		J/kg°K	Btu/lb/°F
°C	°F		
0-100	32-212	500	0.12

Electric Resistivity			
Temperature Range		microhm-cm	microhm-in
°C	°F		
20	68	72	28.3
100	212	78	30.7
200	392	86	33.8
400	752	100	39.4
600	1112	111	43.7
800	1472	121	47.6
900	1652	126	49.6

Mechanical Properties

Condition	Tensile Strength, Min.		0.2% Yield Strength, Min.		Elong. In 2" (50mm)
	Ksi	MPa	Ksi	MPa	%, Min.
Annealed	75	515	30	205	40
1/4 Hard	125	862	75	517	25
1/2 Hard	150	1034	110	758	18*
3/4 Hard	175	1207	135	931	12*
Full Hard	185	1276	140	965	9*

* Value shown for thickness greater than 0.015 in. (.038mm).