

Products & Sizes

Precision Reroll Strip

0.0008" - 0.015"

305 Chemical Composition

	Element	Min	Max
C	Carbon	-	0.12
Mn	Manganese	-	2.00
Si	Silicon	-	1.00
Cr	Chromium	17.00	19.00
Ni	Nickel	10.00	13.00
Mo	Molybdenum	-	0.75
P	Phosphorus	0.040	-
S	Sulfur	-	0.030
Cu	Copper	-	0.75
Fe	Iron	-	Balance

Industry Standards

Industry Applications

- Deep draw and spun components
- Eyelets
- Electronics
- Food Processing
- Kitchen utensils
- Appliances

Physical Properties

Property	Value
Density	0.29 lb/in ³ (8.03 g/cm ³)
Modulus of Elasticity in Tension	29 x 10 ⁶ psi (200GPa)

Linear Coefficient of Thermal Expansion

Temperature Range		Mean Coefficient of Thermal Expansion	
°C	°F	mm/mm/°C	in/in/°F · 10 ⁷
20 - 100	68 - 212	16.6 · 10 ⁻⁶	9.2 · 10 ⁻⁶
20 - 870	68 - 1600	19.8 · 10 ⁻⁶	11 · 10 ⁻⁶

Thermal Conductivity			
Temperature Range		W/m · K	Btu/(hr/ft ² /in/°F)
°C	°F		
100	212	16.3	9.4
500	932	21.4	12.4

Electrical Resistivity			
°C	°F	Microhm-cm	Microhm-in.
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