

Products & Sizes

Coil	Sheet	Precision Rerolled Strip
0.0200" - 0.1250"	0.0200" - 0.1250"	0.0008" - 0.015"

600 Chemical Composition

	Element	Min	Max
Ni	Nickel	72.0	-
Cr	Chromium	14.0	17.0
Fe	Iron	6.0	10.0
C	Carbon	-	0.15
Mn	Manganese	-	1.0
S	Sulfur	-	0.015
Si	Silicon	-	0.50
Cu	Copper	-	0.50

Industry Standards

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

Industry Applications

- Nuclear Power Plant Components
- Heat Exchangers
- Heat Treatment and Furnace Part Fixtures
- Chemical and Petrochemical Processing Equipment
- Vacuum Furnace Fixtures
- Thermocouple Sheathing
- Paper Mill Digesters
- Food Processing Equipment

Related Industries

Aerospace

Oil & Gas

Alternative Energy

Power Generation

Defense

Space

Physical Properties

Property	Value
Density	0.304 lb/in ³
Melting Range	2470-2575°F
Specific Heat	0.11 Btu/lb °F
Poisson's Ratio	0.29

Property	Temperature, °F					
	70	1000	1200	1400	1600	1800
Coefficient of Thermal Expansion, in/in°F x 10 ⁻⁶	-	8.4	8.6	8.7	9.1	9.3
Thermal Conductivity, Btu-ft/ft ² -hr-°F	8.6	13.2	14.3	13.0	16.7	
Modulus of Elasticity, Dynamic, psi x 10 ⁶	30.0	25.6	24.5	23.6	22.2	20.4

Mechanical Properties

Inconel 600 alloys can be machined to pipe fittings, flanges, valve parts, and other complex shapes.

Property	Temperature, °F					
	70	1000	1200	1400	1600	1800
0.2% Yield Strength, ksi	37	28.5	26.5	17	9.0	4.0
Ultimate Tensile Strength, ksi	93	84	65	27.5	15	7.5
Charpy Impact V-notch, ft-lbs	45	47	39	46	80	118