

Products & Sizes

Coil	Sheet	Bar
0.020" - 0.080"	0.020" - 0.080"	0.375" - 3.000"

188 Chemical Composition

	Element	Min	Max
C	Carbon	0.05	0.15
Mn	Manganese	-	1.25
Si	Silicon	0.20	0.50
Cr	Chromium	20.0	24.0
Ni	Nickel	20.0	24.0
W	Tungsten	13.0	16.0
La	Lanthanum	0.02	0.12
B	Boron	-	0.015
Fe	Iron	-	3.0
Co	Cobalt	-	Balance

Industry Standards

- B50TF74
- PWA-LCS
- GE Aircraft Engine (GT193)
- GE Aviation S-SPEC-35 AeDMS S-400
- RR SABRe Edition 2
- DFARS Compliant

Industry Applications

- Gas turbine operations
- Combustors
- Flame holders
- Liners
- Transition ducts
- Exhaust frames

Related Industries

Aerospace

Alternative Energy

Defense

Power Generation

Space

Physical Properties

Property	Value
Density	0.330 lb/in ³ 9.14 g/cm ³
Melting Range	2375-2425 °F 1300-1330 °C
Specific Heat	0.097 at 70 °F, Bru/lb °F 405 at 21 °C, J/kg °C
Permeability	1.0007 at 200 oersted
Coefficient of Expansion	6.6 0-200 °F, 10 ⁻⁶ in/in·°F
Thermal conductivity	84 Btu·in/ft ² ·h·°F W/wm·°C
Electrical Resistivity	613 ohm·circ mil/ft 102.0 microhm-cm

Mechanical Properties

Yield Strength		Tensile Strength		Elongation %
ksi	MPa	ksi	MPa	
65	446	140	963	55