

## Products & Sizes

Coil	Sheet	Bar	Precision Reroll Strip
0.032" - 0.065"	0.032" - 0.065"	0.250" - 4.000"	0.0008" - 0.015"

## L605 Chemical Composition

	Element	Min	Max
Co	Cobalt	-	Balance
Cr	Chromium	-	20.00
W	Tungsten	-	15.00
Ni	Nickel	-	10.0
Fe	Iron	-	3.00
Mn	Manganese	-	1.50
Si	Silicon	-	0.40
C	Carbon	-	0.1
S	Sulfur	-	0.030
P	Phosphorous	-	0.040

## Industry Standards

- B50TF26
- PWA-LCS
- GE Aircraft Engine (GT193)
- GE Aviation S-SPEC-35 AeDMS S-400
- RR SABRe Edition 2
- DFARS Compliant

## Industry Applications

- Aircraft engine combustor liners
- Jet engine and aerospace components
- Land based gas turbine combustor liners
- Industrial furnace lines
- Mufflers and liners for high temperature kilns
- High temperature ball bearings
- Marine turbines

## Physical Properties

Property	Value
Density	0.330 lb/in <sup>3</sup> (9.14 g/cm <sup>3</sup> )
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 <sup>-6</sup> in/in°F
Thermal Conductivity	84 Btu in/ft <sup>2</sup> h °F W/wm °C
Electrical Resistivity	613 ohm circ mil/ft (102 microhm-cm)

## Mechanical Properties

### Mechanical Properties and Yield Strength of Alloy L605

Ultimate Tensile Min		Yield Strength Min (0.2% OS)		Elongation in 4D %
ksi	MPa	ksi	MPa	
125	862	45	310	30

Rupture Strength for Alloy L605			
Temperature		Rupture Strength	
°F	°C	ksi	MPa
1200	649	39	270
1300	704	32	220
1400	760	24	165
1500	816	17	120
1600	871	10	72
1700	927	6	44
1800	982	4	25