

Special Metals INCONEL® G-3 Nickel Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by the manufacturer, Special Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Special-Metals-INCONEL-G-3-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 621 MPa	>= 90000 psi	Min per ASTM B582; Sheet and Plate
Tensile Strength, Yield	>= 241 MPa @Strain 0.200 %	>= 35000 psi @Strain 0.200 %	Min per ASTM B582; Sheet and Plate
Elongation at Break	>= 45 %	>= 45 %	Min per ASTM B582; Sheet and Plate
Modulus of Elasticity	199 GPa	28900 ksi	in tension

Thermal Properties	Metric	English	Comments
CTE, linear	14.6 Åµm/m-Å°C	8.11 Åµin/in-Å°F	Mean
	@Temperature 24.0 - 100 Å°C	@Temperature 75.2 - 212 Å°F	
	14.6 Åµm/m-Å°C	8.11 Åµin/in-Å°F	
	@Temperature 24.0 - 300 Å°C	@Temperature 75.2 - 572 Å°F	Mean
	15.1 Åµm/m-Å°C	8.39 Åµin/in-Å°F	Mean
	@Temperature 24.0 - 500 Å°C	@Temperature 75.2 - 932 Å°F	
Specific Heat Capacity	0.453 J/g-Å°C	0.108 BTU/lb-Å°F	
Thermal Conductivity	10.0 W/m-K	69.4 BTU-in/hr-ftÅ²-Å°F	
Melting Point	1260 - 1343 Å°C	2300 - 2449 Å°F	
Solidus	1260 Å°C	2300 Å°F	
Liquidus	1343 Å°C	2449 Å°F	

Component Elements Properties	Metric	English	Comments
Chromium, Cr	21 - 23.5 %	21 - 23.5 %	
Copper, Cu	1.5 - 2.5 %	1.5 - 2.5 %	
Iron, Fe	18 - 21 %	18 - 21 %	
Molybdenum, Mo	6.0 - 8.0 %	6.0 - 8.0 %	
Nickel, Ni	49 %	49 %	As remainder

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