

Special Metals INCONEL® C276 Nickel Superalloy Plate

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Tensile strength (ultimate and yield) and elongation values reported here are typical for annealed plate. Other property values are typical of INCONEL® C276. Data provided by the manufacturer, Special Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Special-Metals-INCONEL-C276-Nickel-Superalloy-Plate.php

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	740.5 MPa	107400 psi	Typical Annealed
Tensile Strength, Yield	347 MPa @Strain 0.200 %	50300 psi @Strain 0.200 %	Typical Annealed
Elongation at Break	67 %	67 %	Typical Annealed
Modulus of Elasticity	205 GPa	29700 ksi	
Poissons Ratio	0.307	0.307	
Shear Modulus	79.0 GPa	11500 ksi	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.427 J/g-°C	0.102 BTU/lb-°F	
Thermal Conductivity	9.80 W/m-K	68.0 BTU-in/hr-ft ² -°F	
Melting Point	1325 - 1370 °C	2417 - 2500 °F	
Solidus	1325 °C	2417 °F	
Liquidus	1370 °C	2500 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.010 %	<= 0.010 %	
Chromium, Cr	14.5 - 16.5 %	14.5 - 16.5 %	
Cobalt, Co	<= 2.5 %	<= 2.5 %	
Iron, Fe	4.0 - 7.0 %	4.0 - 7.0 %	

Component Elements Properties	Metric	English	Comments
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	15 - 17 %	15 - 17 %	
Nickel, Ni	59 %	59 %	As remainder
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 0.080 %	<= 0.080 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Vanadium, V	<= 0.35 %	<= 0.35 %	

Electrical Properties	Metric	English	Comments
Magnetic Permeability	1.0002	1.0002	at 200 Oersted (15.9 kA/m)

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