

Special Metals INCONEL® 601GC® 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-601GC-Nickel-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.11 g/cc	0.293 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	586 - 689 MPa	85000 - 100000 psi	Annealed temper
Tensile Strength, Yield	207 - 345 MPa @Strain 0.200 %	30000 - 50000 psi @Strain 0.200 %	Annealed temper
Elongation at Break	35 - 55 %	35 - 55 %	Annealed temper

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.448 J/g-°C	0.107 BTU/lb-°F	
Melting Point	1301 - 1368 °C	2374 - 2494 °F	
Solidus	1301 °C	2374 °F	
Liquidus	1368 °C	2494 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.80 - 1.7 %	0.80 - 1.7 %	
Carbon, C	<= 1.0 %	<= 1.0 %	
Chromium, Cr	21 - 25 %	21 - 25 %	
Copper, Cu	<= 1.0 %	<= 1.0 %	
Iron, Fe	15 %	15 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Nickel, Ni	58 - 63 %	58 - 63 %	
Nitrogen, N	0.020 - 0.070 %	0.020 - 0.070 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

Component Elements Properties	Metric	English	Comments
Zirconium, Zr	0.070 - 0.25 %	0.070 - 0.25 %	

Electrical Properties	Metric	English	Comments
Magnetic Permeability	1.003	1.003	at 200 Oersted (15.9 kA/m)
Curie Temperature	$\leq -196 \text{ }^{\circ}\text{C}$	$\leq -321 \text{ }^{\circ}\text{F}$	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China