

Goodfellow Nickel 70/Copper 30 Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Nickel-70Copper-30-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.90 g/cc	0.322 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	100 - 260	100 - 260	
Tensile Strength at Break	480 - 1200 MPa	69600 - 174000 psi	
Elongation at Break	<= 50 %	<= 50 %	
Tensile Modulus	160 - 180 GPa	23200 - 26100 ksi	
Izod Impact, Unnotched	0.900 - 1.60 J/cm	1.69 - 3.00 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	13.6 - 14.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 20.0 - 100 °C	7.56 - 7.78 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 68.0 - 212 °F	
Thermal Conductivity	26.0 W/m-K	180 BTU-in/hr-ft ² -°F	
Melting Point	1300 - 1350 °C	2370 - 2460 °F	
Solidus	1300 °C	2370 °F	
Liquidus	1350 °C	2460 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	30 %	30 %	
Nickel, Ni	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000480 ohm-cm	0.0000480 ohm-cm	

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