

Goodfellow Nickel Base Magnetic Shielding Alloy - Mu Metal

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Nickel Alloy

Material Notes:

High Nickel magnetically soft alloy used for magnetic shielding, high quality but low noise audio frequency transformers, ground fault interrupter cores, anti-shoplifting devices, tape recorder head laminations and magnetometer bobbin cores. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Nickel-Base-Magnetic-Shielding-Alloy-Mu-Metal.php

Physical Properties	Metric	English	Comments
Density	8.80 g/cc	0.318 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	105 - 290	105 - 290	
Tensile Strength at Break	530 - 900 MPa	76900 - 131000 psi	
Tensile Modulus	190 - 221 GPa	27600 - 32100 ksi	
Izod Impact, Unnotched	0.420 - 1.00 J/cm	0.787 - 1.87 ft-lb/in	Notch Status Unknown

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.22 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@ Temperature 20.0 - 100 $^\circ\text{C}$	@ Temperature 68.0 - 212 $^\circ\text{F}$	
Thermal Conductivity	30.0 - 35.0 W/m-K	208 - 243 BTU-in/hr-ft ² - $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	5.0 %	5.0 %	
Iron, Fe	14 %	14 %	
Molybdenum, Mo	4.0 %	4.0 %	
Nickel, Ni	77 %	77 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000550 - 0.0000620 ohm-cm	0.0000550 - 0.0000620 ohm-cm	
Magnetic Permeability	60000	60000	Initial

Electrical Properties	Metric	English	Comments
Magnetic Coercive Force, Hc	0.0126 Oe	0.0126 Oe	
Magnetic Remanence, Br	3700 Gauss	3700 Gauss	
Curie Temperature	380 °C	716 °F	

Descriptive Properties	Value	Comments
Saturation Induction (T)	0.77	

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