

Goodfellow Iron 40/Nickel 38/Boron 18 Alloy

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Solder/Braze Alloy

Material Notes:

Metallic glass (glassy alloy) or amorphous metal. Uses include soft magnetic applications, brazing, coating and as reinforcing fibers. Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Iron-40Nickel-38Boron-18-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	740	740	kg(f)/mm ²
Tensile Strength at Break	>= 700 MPa	>= 102000 psi	
Tensile Modulus	64.0 GPa	9280 ksi	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	410 °C	770 °F	
Maximum Service Temperature, Air	125 °C	257 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	18 %	18 %	
Iron, Fe	40 %	40 %	
Molybdenum, Mo	4.0 %	4.0 %	
Nickel, Ni	38 %	38 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000138 ohm-cm	0.000138 ohm-cm	
Magnetic Coercive Force, Hc	0.10 Oe	0.10 Oe	
Magnetic Saturation Flux Density, Bmax	8800 Gauss	8800 Gauss	
Magnetic Remanence, Br	0.68 Gauss	0.68 Gauss	Remanence Ratio, B _r /B _s
Curie Temperature	353 °C	667 °F	

Descriptive Properties	Value	Comments
Saturation magnetostriction (x10 ⁻⁶)	12	

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