

Goodfellow Nickel/Iron/Silicon/Boron Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , 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. Composition Notes: Si + B content = 19 wt%.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-NickelIronSiliconBoron-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.40 g/cc	0.267 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	800	800	kg(f)/mm ²
Tensile Strength at Break	1500 - 2000 MPa	218000 - 290000 psi	
Tensile Modulus	150 GPa	21800 ksi	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	450 °C	842 °F	
Maximum Service Temperature, Air	120 °C	248 °F	

Component Elements Properties	Metric	English	Comments
Iron, Fe	40 %	40 %	
Molybdenum, Mo	1.0 - 2.0 %	1.0 - 2.0 %	
Nickel, Ni	40 %	40 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000135 ohm-cm	0.000135 ohm-cm	
Magnetic Coercive Force, Hc	0.0126 Oe	0.0126 Oe	
Magnetic Saturation Flux Density, Bmax	8000 Gauss	8000 Gauss	
Magnetic Remanence, Br	<= 1.0 Gauss	<= 1.0 Gauss	Remanence Ratio, B_{r_r}/B_{s_s}
Curie Temperature	260 °C	500 °F	

Descriptive Properties	Value	Comments
Saturation magnetostriction (x10 ⁻⁶)	8	

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