

Goodfellow Iron 78/Boron 13/Silicon 9 Alloy

Category : Metal , Ferrous Metal , Superalloy , Iron Base

Material Notes:

Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Iron-78Boron-13Silicon-9-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.18 g/cc	0.259 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	860	860	kg(f)/mm ²
Tensile Strength at Break	>= 700 MPa	>= 102000 psi	
Tensile Modulus	57.0 GPa	8270 ksi	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	550 °C	1020 °F	
Maximum Service Temperature, Air	150 °C	302 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	13 %	13 %	
Iron, Fe	78 %	78 %	
Silicon, Si	9.0 %	9.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000137 ohm-cm	0.000137 ohm-cm	
Magnetic Coercive Force, Hc	0.176 Oe	0.176 Oe	
Magnetic Saturation Flux Density, Bmax	15600 Gauss	15600 Gauss	
Magnetic Remanence, Br	0.76 Gauss	0.76 Gauss	Remanence Ratio, B _r /B _s
Curie Temperature	415 °C	779 °F	

Descriptive Properties	Value	Comments
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Saturation magnetstriction ($\times 10^{-6}$)
Descriptive Properties

27
Value

Comments

Contact Songhan Plastic Technology Co.,Ltd.

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