

Goodfellow Iron 79/Boron 16/Silicon 5 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-79Boron-16Silicon-5-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.28 g/cc	0.263 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	900	900	kg(f)/mm ²
Tensile Strength at Break	1500 MPa	218000 psi	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	515 °C	959 °F	
Maximum Service Temperature, Air	150 °C	302 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	16 %	16 %	
Iron, Fe	79 %	79 %	
Silicon, Si	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000125 ohm-cm	0.000125 ohm-cm	
Magnetic Coercive Force, Hc	0.20 Oe	0.20 Oe	
Magnetic Saturation Flux Density, Bmax	15800 Gauss	15800 Gauss	
Magnetic Remanence, Br	0.19 Gauss	0.19 Gauss	Remanence Ratio, B _r /B _s
Curie Temperature	405 °C	761 °F	

Descriptive Properties	Value	Comments
Saturation magnetostriction (x10 ⁻⁶)	27	

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