

## Goodfellow Cobalt/Boron/Silicon/Iron/Molybdenum/Nickel Alloy

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

**Material Notes:**

Information provided by Goodfellow.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Goodfellow-CobaltBoronSiliconIronMolybdenumNickel-Alloy.php](http://www.lookpolymers.com/polymer_Goodfellow-CobaltBoronSiliconIronMolybdenumNickel-Alloy.php)

Physical Properties	Metric	English	Comments
Density	7.80 g/cc	0.282 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	900	900	kg(f)/mm <sup>2</sup>
Tensile Strength at Break	>= 700 MPa	>= 102000 psi	
Tensile Modulus	63.0 GPa	9140 ksi	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	520 °C	968 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	12 %	12 %	
Cobalt, Co	69 %	69 %	
Iron, Fe	4.0 %	4.0 %	
Molybdenum, Mo	2.0 %	2.0 %	
Nickel, Ni	1.0 %	1.0 %	
Silicon, Si	12 %	12 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000136 ohm-cm	0.000136 ohm-cm	
Magnetic Coercive Force, Hc	0.010 Oe	0.010 Oe	
Magnetic Saturation Flux Density, Bmax	7000 Gauss	7000 Gauss	
Curie Temperature	365 °C	689 °F	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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