

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

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

### Material Notes:

Metallic glasses (glassy alloys) or amorphous metals. 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-CobaltSiliconBoronIronNickel-Alloy.php](http://www.lookpolymers.com/polymer_Goodfellow-CobaltSiliconBoronIronNickel-Alloy.php)

Physical Properties	Metric	English	Comments
Density	7.59 g/cc	0.274 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	960	960	kg(f)/mm <sup>2</sup>
Tensile Strength at Break	>= 700 MPa	>= 102000 psi	
Tensile Modulus	61.0 GPa	8850 ksi	

Thermal Properties	Metric	English	Comments
Crystallization Temperature	550 °C	1020 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	14 %	14 %	
Cobalt, Co	66 %	66 %	
Iron, Fe	4.0 %	4.0 %	
Nickel, Ni	1.0 %	1.0 %	
Silicon, Si	15 %	15 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000142 ohm-cm	0.000142 ohm-cm	
Magnetic Coercive Force, Hc	0.0030 Oe	0.0030 Oe	
Magnetic Saturation Flux Density, Bmax	5500 Gauss	5500 Gauss	
Magnetic Remanence, Br	0.82 Gauss	0.82 Gauss	Remanence Ratio, B <sub>r</sub> /B <sub>s</sub>

Electrical Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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