

Goodfellow Cobalt/Silicon/Boron/Manganese Alloy

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

Material Notes:

Information provided by Goodfellow. Composition Notes: Si + B content = 25 wt%. Fe+Mo content = 2 wt%.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	7.60 g/cc	0.275 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	900	900	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	80.0 - 120 °C	176 - 248 °F	

Component Elements Properties	Metric	English	Comments
Cobalt, Co	70 %	70 %	
Manganese, Mn	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000130 ohm-cm	0.000130 ohm-cm	
Magnetic Coercive Force, Hc	0.013 Oe	0.013 Oe	
Magnetic Saturation Flux Density, B _{max}	8000 Gauss	8000 Gauss	
Magnetic Remanence, Br	0.70 - 0.95 Gauss	0.70 - 0.95 Gauss	Remanence Ratio, B _r /B _s
Curie Temperature	350 °C	662 °F	

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