

Alliance A-3 Alnico Magnetic Material

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-A-3-Alnico-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	7.30 g/cc	0.264 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	450 - 700	450 - 700	

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 - 13.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	6.11 - 7.22 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Parallel DOM
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Maximum Service Temperature, Air	450 $^\circ\text{C}$	842 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000470 - 0.0000530 ohm-cm	0.0000470 - 0.0000530 ohm-cm	
Magnetic Coercive Force, Hc	480 Oe	480 Oe	
	500 Oe	500 Oe	Intrinsic
Magnetic Remanence, Br	6000 Gauss	6000 Gauss	
Magnetic Maximum Energy Product, BH	1.2 MGOe	1.2 MGOe	
Curie Temperature	810 $^\circ\text{C}$	1490 $^\circ\text{F}$	

Descriptive Properties	Value	Comments
Reversible Temp Coef., Bd	-0.03 %/ $^\circ\text{C}$	
Reversible Temp Coef., Hd	-0.02 %/ $^\circ\text{C}$	
Temperature Coefficient, Br	-0.025 %/ $^\circ\text{C}$	(20-100 $^\circ\text{C}$)
Temperature Coefficient, Hci	+0.01 %/ $^\circ\text{C}$	(20-100 $^\circ\text{C}$)

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