

Alliance A-5S 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-5S-Alnico-Magnetic-Material.php

Physical Properties	Metric	English	Comments
Density	6.90 - 7.30 g/cc	0.249 - 0.264 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	300 - 500	300 - 500	
Tensile Strength, Ultimate	80.0 - 300 MPa	11600 - 43500 psi	
Modulus of Elasticity	100 - 200 GPa	14500 - 29000 ksi	
Compressive Strength	300 - 400 MPa	43500 - 58000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 - 13.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.56 - 7.22 $\mu\text{in}/\text{in}\cdot\text{°F}$	Parallel DOM
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.350 - 0.500 $\text{J}/\text{g}\cdot\text{°C}$	0.0837 - 0.120 $\text{BTU}/\text{lb}\cdot\text{°F}$	
Thermal Conductivity	10.0 - 200 $\text{W}/\text{m}\cdot\text{K}$	69.4 - 1390 $\text{BTU}\cdot\text{in}/\text{hr}\cdot\text{ft}^2\cdot\text{°F}$	
Maximum Service Temperature, Air	450 °C	842 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000400 - 0.0000700 $\text{ohm}\cdot\text{cm}$	0.0000400 - 0.0000700 $\text{ohm}\cdot\text{cm}$	
Magnetic Coercive Force, Hc	590 Oe	590 Oe	
	600 Oe	600 Oe	Intrinsic
Magnetic Remanence, Br	10500 Gauss	10500 Gauss	
Magnetic Maximum Energy Product, BH	3.9 MGOe	3.9 MGOe	
Curie Temperature	850 °C	1560 °F	

Descriptive Properties	Value	Comments
Reversible Temp Coef., Bd	-0.016 %/°C	
Temperature Coefficient, Br	-0.025 %/°C	(20-100°C)
Temperature Coefficient, Hci	+0.01 %/°C	(20-100°C)

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