

Ceradyne SEMICORE® S1-5C Specials SmCo5 Samarium Cobalt Magnet

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

Material Notes:

Applications: Microwave amplifiers and oscillators for airborne equipment TWT modules for phased array radar Small motors for severe thermal conditions Hermetic magnetic couplings to replace shaft seals Lightweight generators, usually for aircraft Vane actuators for missiles Particle beam focusing, quadrupoles, lenses, wigglers, etc. Magnetic bearings, gyros, vacuum pumps, accelerometers Various mechanisms in disk drives, cameras, tape drives, and miniature loudspeakers and earphones; where small size is important Information provided by Ceradyne Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ceradyne-SEMICORE-S1-5C-Specials-SmCo5-Samarium-Cobalt-Magnet.php

Physical Properties	Metric	English	Comments
Density	8.40 g/cc	0.303 lb/in ³	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	10.5 W/m-K	72.5 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000500 ohm-cm	0.0000500 ohm-cm	
Magnetic Coercive Force, Hc	>= 1800 Oe	>= 1800 Oe	Intrinsic
	5600 - 7000 Oe	5600 - 7000 Oe	
Magnetic Remanence, Br	5800 - 7200 Gauss	5800 - 7200 Gauss	
Magnetic Maximum Energy Product, BH	9.0 - 13 MGOe	9.0 - 13 MGOe	
Curie Temperature	700 °C	1290 °F	

Descriptive Properties	Value	Comments
Room Temperature Compensation, RTC, %/°C	0/-0.03	

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