

## Ceradyne SEMICORE® S2-17C Specials Sm2 (CoFeCuZr)17 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-S2-17C-Specials-Sm2-CoFeCuZr17-Samarium-Cobalt-Magnet.php](http://www.lookpolymers.com/polymer_Ceradyne-SEMICORE-S2-17C-Specials-Sm2-CoFeCuZr17-Samarium-Cobalt-Magnet.php)

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	10.5 W/m-K	72.5 BTU-in/hr-ft <sup>2</sup> -°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
	7600 - 8600 Oe	7600 - 8600 Oe	
Magnetic Remanence, Br	8000 - 9000 Gauss	8000 - 9000 Gauss	
Magnetic Maximum Energy Product, BH	16 - 20 MGOe	16 - 20 MGOe	
Curie Temperature	800 °C	1470 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China