TRIDUS
MAGNETICS AND ASSEMBLIES

Samarium Cobalt Permanent Magnets

Material Properties

Standard Material Grade	Residual Induction Br Gauss		Coercivity HcB Oe	Intrinsic Coercivity Hci Oe	Maximum Energy product (BH)max MGOe	
	MAX	MIN	MIN	MIN	MAX	MIN
Tri-SmCo 16	8,800	7,500	7,000	25,000	18	14
Tri-SmCo 18	9,300	8,000	7,500	18,000	20	16
Tri-SmCo 20	9,800	8,500	7,500	16,000	22	18
Tri-SmCo 22	10,300	9,000	7,700	18,000	24	20
Tri-SmCo 24	10,800	9,800	8,000	18,000	26	22
Tri-SmCo 26	11,300	10,000	8,500	15,000	28	24
Tri-SmCo 28	11,300	10,000	9,000	18,000	30	26
Tri-SmCo 30	12,000	10,500	9,500	25,000	31	28

NOTES: 1. Finished magnet size and shape may limit magnetic properties.
2. Design evaluation services are available.

Physical Properties

Characteristics	Mark	Unit	
Temperature Coefficient	?	% / ºC	-0.035 ~ -0.05
Curie Temperature	Tc	ºC	710 ~ 770
Density	?	gr /cm³	8.5
Vickers Hardness		D.P.N.	600 ~ 670
Electrical Resistivity	R	μΩ• cm	50
Coefficient of Thermal Expansion (0~200ºC)	C//	-6 10 / ºC	7 ~ 10