TRIDUS
MAGNETICS AND ASSEMBLIES

Ceramic Magnets

Material Properties

Premium Material Grade	Residual Induction Br Gauss		Coercivity Hc Oe		Intrinsic Coercivity Hci Oe		Maximum Energy product (BH)max MGOe	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Tri-FER-1	2350	2000	2000	1600	3500	2800	1.2	0.8
Tri-FER-6	4000	3700	2650	2200	2750	2250	3.8	3.3
Tri-FER-7	3600	3300	3500	3200	4200	3900	3.2	2.7
Tri-FER-8-TA	4200	3900	3000	2700	3200	2800	4.1	3.7
Tri-FER-8-TB	4000	3800	3400	2850	3600	2950	4.0	3.4
Tri-FER-8-TC	4000	3700	3700	3200	4200	3900	3.8	3.2
Tri-FER-8-TD	4150	3950	3700	3200	3800	3400	4.1	3.7
Tri-FER-8-TE	3800	3600	3700	3400	5100	4600	3.5	3.1
Tri-FER-9-TE	4100	3900	3900	3500	4200	3900	4.0	3.6
Tri-FER-10-TE	4200	4000	3900	3500	4200	3900	4.2	3.75

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

Physical Properties

Characteristics	Mark	Unit	
Temperature Coefficient	ΔBr/Br	% / °C	-0.18 ~ -0.20
	ΔHc/Hc		0.2 ~ 0.5
Curie Temperature	Tc	°C	450 ~ 460
Recoil permeability		μrec	1.0 ~ 1.1
Density	ρ	gr /cm³	4.8 ~ 5.1
Vickers Hardness	HRC	D.P.N.	55 ~ 60
Tensile Strength	T.S.	Kg/mm²	5 ~ 10
Electrical Resistivity	R	μΩ • cm	4 >10
Coefficient of Thermal Expansion (0~200°C)	C//	-6 10 / °C	14 ~ 15
	C⊥		9 ~ 10
Thermal Conductivity	K	cal/cm • sec °C	~ 0.014
Heat Capacity	C	cal/gr • °C	0.15 ~ 0.2