

Magnetic Properties of Sintered Hard Ferrite Magnet

Material Grade			SFM-1A-1*	SFM-2A	SFM-2B	SFM-3A	SFM-3B	SFM-3C	SFM-3D	SFM-4A	SFM-4B	SFM-4C	SFM-4D	SFM-4E	SFM-4F	SFM-4G	SFM-5A	SFM-5B	SFM-5C	SFM-6A	SFM-6B	SFM-6C	SFM-6D
Remanence	Br	kGs	2.0-2.3	3.3-3.6	3.5-3.8	3.6-3.9	3.6-3.9	3.6-3.9	3.6-3.9	3.8-4.1	3.8-4.1	3.8-4.1	3.8-4.1	3.8-4.1	3.9-4.2	3.9-4.1	4.0-4.3	4.0-4.3	4.0-4.3	4.1-4.3	4.2-4.4	4.3-4.5	4.3-4.5
		mT	200-230	330-360	350-380	360-390	360-390	360-390	360-390	380-410	380-410	380-410	380-410	380-410	380-410	390-420	390-410	400-430	400-430	400-430	410-430	420-440	430-450
Coercive force	Hc	kOe	1.7-2.1	3.2-3.6	2.8-3.2	1.8-2.2	2.7-3.1	2.8-3.2	3.4-3.8	2.0-2.4	2.2-2.6	2.8-3.2	3.0-3.4	3.3-3.7	3.5-3.9	3.6-4.0	2.0-2.4	2.7-3.1	3.0-3.4	3.6-4.0	2.2-2.6	2.6-3.0	3.0-3.4
		kA/m	135-167	255-287	223-255	143-175	215-247	223-255	271-303	159-191	175-207	223-255	239-271	263-295	279-311	287-319	159-191	215-247	239-271	287-319	175-207	207-239	239-271
	Hcj	kOe	2.7-3.1	4.1-4.5	2.9-3.3	1.9-2.3	2.8-3.2	2.9-3.6	4.6-5.0	2.1-2.5	2.3-2.7	2.9-3.3	3.1-3.5	3.8-4.2	3.8-4.2	4.3-4.7	2.1-2.5	2.8-3.2	3.1-3.5	3.8-4.2	2.3-2.7	2.7-3.1	3.1-3.5
		kA/m	215-247	326-358	231-263	151-183	223-255	231-263	366-398	167-199	183-215	231-263	247-279	303-335	302-334	342-374	167-199	223-255	247-279	303-335	183-215	215-247	247-279
Max. Energy product	(BH)max	MGOe	0.9-1.1	2.7-3.1	2.7-3.1	2.9-3.3	3.0-3.4	3.1-3.5	3.2-3.6	3.3-3.7	3.4-3.8	3.5-3.9	3.6-4.0	3.7-4.1	3.9-4.3	3.9-4.3	3.8-4.2	3.9-4.3	4.0-4.4	4.1-4.5	4.1-4.5	4.2-4.6	4.3-4.7
		kJ/M ³	7.1-9.0	21.6-24.8	21.6-24.8	23.2-26.4	24.8-28.0	24.8-28.0	25.6-28.8	26.4-29.6	27.2-30.4	28.0-31.2	28.8-32.0	29.6-32.8	31.2-34.4	31.2-34.4	30.4-33.6	31.2-34.4	32.0-35.2	32.8-36.0	32.8-36.0	33.6-36.8	34.4-37.6
Rever. Temp. Coeff.	α (Br)	%/°C	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18
	β (Hcj)	%/°C	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30	+0.30
Remark			FB1A C-1 Y-10	C-7 HF24/35	FB3B HF24/23 Y-25H	Y-25 HF24/16 HF26/16	FXD330 Y-26H Y-27H FB-3X	HF26/24 HF26/26 FB-3G	FB-6E C-11 FXD-580	FXD-300 HF28/16 HF26/16 Y28-1	Y28-2 C-5 Y-30	Y30-BH Y30-1 C-8 FB3N	Y30H-1 HF28/26 HF30/26 FXD-380 FB-4B	Y30-2 Y30H-2 HF26/30 C-9 FB-4G FXD500	C-12 FB-5H HF30/31 FXD-500	HF28/34 FB6H	Y-32 Y-35 HF30/16 HF32/17 FB4A	Y-33 C-10 FB-4D FB-4X HF32/22	FB-5B FXD-400 HF32/25 FXD-520	FB6B	FB4N	HF34/21 FB-5N	FB-6N

Remark: All the data listed in the table are measured as per standard IEC60404-5:1995

I* means isotropic magnet, other grades are of anisotropic magnet.