

Ferrite Magnets Performance Datasheet

● **Mostly Used national standard – SJ285-77 permanent ferrite magnet standard**

Grade	Remanence		Coercive Force		Intrinsic Coercivity		Max. Energy Product	
	Br		Hcb		Hcj		(BH)max	
	mT	KG	KA/m	Koe	KA/m	KOe	KJ/m3	MGOe
Y10T(=C1)	200/218	2.00/2.18	125/145	1.57/1.82	210/250	2.64/3.14	6.5/8.0	0.8/1.0
Y25	360/370	3.60/3.70	135/150	1.70/1.88	140/170	1.76/2.14	22.5/25.3	2.8/3.2
Y30(=C5)	380/385	3.80/3.85	191/210	2.40/2.64	199/220	2.50/2.51	26.0/28	3.4/3.7
Y30BH	380/390	3.80/3.90	223/235	2.80/2.95	231/245	2.90/3.08	27.0/30.0	3.4/3.7
Y33	410/420	4.10/4.20	220/235	2.77/2.95	225/240	2.83/3.01	31.5/33.0	4.0/4.2
Y35	400/410	4.00/4.10	175/195	2.20/2.45	180/200	2.26/2.51	30.0/32.0	3.8/4.0
C8(=C8A)	385/390	3.85/3.90	235/255	2.95/3.20	242/265	3.05/3.33	27.8/30.0	3.5/3.7
C10	400/410	4.00/4.10	288/300	3.62/3.77	280/287	3.51/3.60	30.4/31.9	3.8/4.0

● **Chinese Standard -SJ/T10410 2002 - commonly used globally, especially in UK and EU**

Grade	Remanence		Coercive Force		Intrinsic Coercivity		Max. Energy Product	
	Br		Hcb		Hcj		(BH)max	
	mT	Gs	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe
Y8T	200-235	2,000-2,350	125-160	1.57-2.01	210-280	2.64-3.52	6.5-9.5	0.8-1.2
Y22H	310-360	3,100-3,600	220-250	2.76-3.14	280-320	3.52-4.02	20.0-24.0	2.5-3.0
Y25	360-400	3,600-4,000	135-170	1.70-2.14	140-200	1.76-2.51	22.5-28.0	2.8-3.5
Y26H-1	360-390	3,600-3,900	220-250	2.76-3.14	225-255	2.83-3.20	23.0-28.0	2.9-3.5
Y26H-2	360-380	3,600-3,800	263-288	3.30-3.62	318-350	3.99-4.40	24.0-28.0	30-3.5
Y27H	350-380	3,500-3,800	225-240	2.83-3.01	235-260	2.95-3.27	25.0-29.0	3.1-3.6
Y28	370-400	3,700-4,000	175-210	2.20-2.64	180-220	2.26-2.76	26.0-30.0	3.3-3.8
Y28H-1	380-400	3,800-4,000	240-260	3.01-3.27	250-280	3.14-3.52	27.0-30.0	3.4-3.8
Y28H-2	360-380	3,600-3,800	271-295	3.40-3.71	382-405	4.80-5.09	26.0-30.0	3.3-3.8
Y30H-1	380-400	3,800-4,000	230-275	2.89-3.45	235-290	2.95-3.64	27.0-32.5	3.4-4.1
Y30H-2	395-415	3,950-4,150	275-300	3.45-3.77	310-335	3.89-4.21	27.0-32.0	3.4-4.0
Y32	400-420	4,000-4,200	160-190	2.01-2.39	165-195	2.07-2.45	30.0-33.5	3.8-4.2
Y32H-1	400-420	4,000-4,200	190-230	2.39-2.89	230-250	2.89-3.14	31.5-35.0	4.0-4.4
Y32H-2	400-440	4,000-4,400	224-240	2.81-3.01	230-250	2.89-3.14	31.0-34.0	3.9-4.3
Y33	410-430	4,100-4,300	220~250	2.76-3.14	225-255	2.83-3.20	31.5-35.0	4.0-4.4
Y33H	410-430	4,100-4,300	250-270	3.14-3.39	250-275	3.14-3.45	31.5-35.0	4.0-4.4
Y34	420-440	4,200-4,400	200-230	2.51-2.89	205-235	2.57-2.95	32.5-36.0	4.1-4.5
Y35	430-450	4,300-4,500	215-239	2.70-3.00	217-242	2.73-3.04	33.1-38.2	4.2-4.8
Y36	430-450	4,300-4,500	247-271	3.10-3.40	250-274	3.14-3.44	35.1-38.3	4.4-4.8
Y38	440-460	4,400-4,600	285-305	3.58-3.83	294-310	3.69-3.89	36.6-40.6	4.6-5.1
Y40	440-460	4,400-4,600	330-354	4.14-4.45	340-360	4.27-4.52	37.6-41.8	4.7-5.3

● **American Standard – also used in UK**

Grade	Remanence Br		Coercive Force Hcb		Intrinsic Coercivity Hcj		Max. Energy Product (BH)max	
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe
C1	230	2.30	148	1.86	258	3.50	8.36	1.05
C5	380	3.80	191	2.40	199	2.50	27.00	3.40
C7	340	3.40	258	3.23	318	4.00	21.90	2.75
C8/C8A	385	3.85	235	2.95	242	3.05	27.80	3.50
C8B	420	4.20	232	2.91	236	2.96	32.80	4.12
C9	380	3.80	280	3.52	320	4.01	26.40	3.32
C10	400	4.00	280	3.52	284	3.57	30.40	3.82
C11	430	4.30	200	2.51	204	2.56	34.40	4.32
C12	400	4.00	290	3.65	318	4.00	32.00	4.00

● **Japan TDK Standard**

Grade	Composition	Remanence Br		Coercive Force Hcb		Intrinsic Coercivity Hcj		Max. Energy Product (BH)max	
		mT	kG	kA/m	kOe	kA/m	kOe	KJ/m ³	MGOe
FB40	SrO6Fe2O3	410+/-10	4.1+/-10	234.8+/-11.9	2.95+/-0.15	238.7+/-15.9	3.0+/-0.2	31.4+/-1.6	3.95+/-0.2
FB3N	SrO6Fe2O3	395+/-15	3.95+/-15	234.8+/-11.9	2.95+/-0.15	238.7+/-15.9	3.0+/-0.2	28.7+/-2.4	3.6+/-0.3
FB3G	SrO6Fe2O3	375+/-15	3.75+/-15	254.6+/-15.9	3.2+/-0.2	270.6+/-19.9	3.4+/-0.25	25.9+/-2.4	3.25+/-0.3
FB3X	SrO6Fe2O3	375+/-15	3.75+/-15	234.8+/-11.9	2.95+/-0.15	238.7+/-15.9	3.0+/-0.2	25.9+/-2.4	3.25+/-0.3
FB1A	SrO6Fe2O3	220+/-15	2.20+/-15	159.2+/-15.9	2.0+/-0.2	258.6+/-19.9	3.25+/-0.25	8.9+/-1.6	1.1+/-0.2
FB5H	SrO6Fe2O3	405+/-15	4.05+/-15	298.4+/-11.9	3.75+/-0.15	322.3+/-11.9	4.05+/-0.15	31.1+/-1.6	3.9+/-0.2
FB4X	SrO6Fe2O3	420+/-10	4.20+/-10	234.8+/-11.9	2.95+/-0.15	238.7+/-15.9	3.0+/-0.2	33.4+/-1.6	4.2+/-0.2
FB4B	SrO6Fe2O3	400+/-10	4.00+/-10	254.6+/-11.9	3.2+/-0.2	262.6+/-19.9	3.3+/-0.25	30.3+/-1.6	3.8+/-0.2
FB4A	SrO/BaO6Fe2O3	410+/-10	4.10+/-10	175.1+/-15.9	2.2+/-0.2	176.7+/-15.9	2.22+/-0.2	31.8+/-1.6	4.0+/-0.2
FBGN	SrO6Fe2O3	440+/-10	4.40+/-10	258.6+/-11.9	3.25+/-0.15	262.6+/-11.9	3.3+/-0.15	36.7+/-1.6	4.6+/-0.2
FB6B	SrO6Fe2O3	420+/-10	4.20+/-10	302.4+/-11.9	3.8+/-0.15	318.3+/-11.9	4.0+/-0.15	33.4+/-1.6	4.2+/-0.2
FB6H	SrO6Fe2O3	400+/-10	4.00+/-10	302.4+/-11.9	3.8+/-0.15	358.1+/-11.9	4.5+/-0.15	30.3+/-1.6	3.8+/-0.2
FB6E	SrO6Fe2O3	380+/-10	3.80+/-10	290.5+/-11.9	3.65+/-0.15	393.9+/-11.9	4.95+/-0.15	27.5+/-1.6	3.45+/-0.2
FB5N	SrO6Fe2O3	440+/-10	4.40+/-10	256.8+/-11.9	2.85+/-0.15	2259.2+/-11.9	2.88+/-0.15	36.7+/-1.6	4.6+/-0.2
FB5B	SrO6Fe2O3	420+/-10	4.20+/-10	262.6+/-11.9	3.3+/-0.15	266.6+/-11.9	3.35+/-0.15	33.4+/-1.6	4.2+/-0.2

● **IEC Standard (IEC 60404-8-1)**

Grade	Remanence Br		Coercive Force Hcb(Hc)		Intrinsic Coercivity Hcj(Hci)		Max. Energy Product (BH)max	
	mT	kGs	kA/m	kOe	kA/m	kOe	KJ/m ³	MGOe
HF8/22	200/220	2.00/2.20	125/140	1.57/1.76	220/230	2.76/2.89	6.5/6.8	0.8/1.1
HF20/19	320/333	3.20/3.33	170/190	2.14/2.39	190/200	2.39/2.51	20.0/21.0	2.5/2.7

Grade	Remanence Br		Coercive Force Hcb(Hc)		Intrinsic Coercivity Hcj(Hci)		Max. Energy Product (BH)max	
	mT	kGs	kA/m	kOe	kA/m	kOe	KJ/m ³	MGOe
HF20/28	310/325	3.10/3.25	220/230	2.76/2.89	280/290	3.52/3.64	20.0/21.0	2.5/2.7
HF22/30	350/365	3.50/3.65	255/265	3.20/3.33	290/300	3.64/3.77	22.0/23.5	2.8/3.0
HF24/16	350/365	3.50/3.65	155/175	1.95/2.20	160/180	2.01/2.26	24.0/25.5	3.0/3.2
HF24/23	350/365	3.50/3.65	220/230	2.76/2.89	230/240	2.89/3.01	24.0/25.5	3.0/3.2
HF24/35	360/370	3.60/3.70	260/270	3.27/3.39	350/360	4.40/4.52	24.0/25.5	3.0/3.2
HF26/16	370/380	3.70/3.80	155/175	1.95/2.20	160/180	2.01/2.26	26.0/27.0	3.2/3.4
HF26/18	370/380	3.70/3.80	175/190	2.20/2.39	180/190	2.26/2.39	26.0/27.0	3.3/3.4
HF26/24	370/380	3.70/3.80	230/240	2.89/3.01	240/250	3.01/3.14	26.0/27.0	3.3/3.4
HF26/26	370/380	3.70/3.80	230/240	2.89/3.01	260/270	3.27/3.39	26.0/27.0	3.3/3.4
HF26/30	385/395	3.85/3.95	260/270	3.27/3.39	300/310	3.77/3.89	26.0/27.0	3.3/3.4
HF28/26	385/395	3.85/3.95	250/265	3.14/3.33	260/275	3.27/3.45	28.0/30.0	3.5/3.8
HF28/28	385/395	3.85/3.95	260/270	3.27/3.39	280/290	3.50/3.60	28.0/30.0	3.5/3.8
HF30/26	395/405	3.95/4.05	250/260	3.14/3.33	260/270	3.27/3.39	30.0/31.5	3.8/3.9
HF32/17	410/420	4.10/4.20	160/180	2.01/2.26	165/175	2.07/2.20	32.0/33.0	4.0/4.1
HF32/22	410/420	4.10/4.20	215/225	2.70/2.83	220/230	2.76/2.89	32.0/33.0	4.0/4.1
HF32/25	410/420	4.10/4.20	240/250	3.01/3.14	250/260	3.14/3.27	32.0/33.0	4.0/4.1

If in any doubt, please contact us for technical assistance.

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