

Magnetic Properties of Hard Ferrite



Product description

Hard ferrite is made by ceramic process method and sourced from SrO or BaO and Fe_2O_3 . It is cheaper than other magnets because of lower price for raw material and simpler production. Oxide is the mainly composition of ferrite, so it has no need to electroplating as they don't suffer from environmental or chemical substances (except the acid) corrosion. They mainly used in crafts, adsorption pieces, toys, motor, speaker, etc.

There are USA Standard, Chinese Standard and European Standard.

USA Standard									
Grade	Br		bHc		iHc		(BH)max		Density
	KGs	mT	KOe	KA/m	KOe	KA/m	MGOe	KJ/m ³	g/cm ³
C1	2.3	230	1.86	148	3.5	258	1.05	8.36	4.6-5.0
C5	3.8	380	2.4	191	2.5	199	3.4	27.1	4.6-5.0
C7	3.4	340	3.23	258	4	318	2.75	21.9	4.6-5.0
C8	3.85	385	2.95	235	3.05	242	3.5	27.8	4.6-5.0
C8B	4.1	410	2.9	231	2.95	235	3.6	28.7	4.6-5.0
C8C	4.3	430	2.5	199	2.55	203	4.3	34.2	4.6-5.0
C9	3.8	380	3.516	280	4.01	320	3.32	26.4	4.6-5.0
C10	4	400	3.617	288	3.51	280	3.82	30.4	4.6-5.0
C11	4.3	430	2.512	200	2.56	204	4.32	34.4	4.6-5.0
C12	4	400	3.64	290	3.99	318	4.02	32.0	4.6-5.0

Permanent Ferrite Magnet Standard

Grade	Br		bHc		lHc		(BH)max		Density
	KGs	mT	KOe	KA/m	KOe	KA/m	MGOe	KJ/m ³	g/cm ³
Y10T	2.0-2.35	200-235	1.57-2.01	125-160	2.64-3.52	210-280	0.81-1.18	6.5-9.5	4.6-5.0
Y20	3.2-3.8	320-380	1.7-2.38	135-190	1.76-2.45	140-195	2.25-2.75	18.0-22.0	4.6-5.0
Y25	3.6-4.0	360-400	1.7-2.14	135-170	1.76-2.51	140-200	2.81-3.5	22.5-28	4.6-5.0
Y30	3.7-4.0	370-400	2.2-2.64	175-210	2.26-2.77	180-220	3.3-3.77	26.0-30.0	4.6-5.0
Y30BH	3.8-4.0	380-400	2.89-3.46	230-275	2.95-3.64	235-290	3.45-4.0	27.0-32.0	4.6-5.0
Y33	4.1-4.3	410-430	2.77-3.14	220-250	2.83-3.21	225-255	3.96-4.4	31.5-35	4.6-5.0
Y35	4.3-4.5	430-450	2.7-3.0	215-239	2.73-3.03	217-241	4.16-4.8	33.1-38.2	4.6-5.0

The standard from International Electronics Committee (IEC404-8-1)

Grade	Br		bHc		lHc		(BH)max		Density
	KGs	mT	KOe	KA/m	KOe	KA/m	MGOe	KJ/m ³	g/cm ³
HF8/22	2.00-2.20	200-220	1.57-1.76	125-140	2.76-2.89	220-230	0.8-1.1	6.5-6.8	4.6-5.0
HF20/19	3.20-3.33	320-333	2.14-2.39	170-190	2.39-2.51	190-200	2.5-2.7	20.0-21.0	4.6-5.0
HF20/28	3.10-3.25	310-325	2.76-2.89	220-230	3.52-3.64	280-290	2.5-2.7	20.0-21.0	4.6-5.0
HF22/30	3.50-3.65	350-365	3.20-3.33	255-265	3.64-3.77	290-300	2.8-3.0	22.0-23.5	4.6-5.0
HF24/16	3.50-3.65	350-365	1.95-2.20	155-175	2.01-2.26	160-180	3.0-3.2	24.0-25.5	4.6-5.0
HF24/23	3.50-3.65	350-365	2.76-2.89	220-230	2.89-3.01	230-240	3.0-3.2	24.0-25.5	4.6-5.0
HF24/35	3.60-3.70	360-370	3.27-3.39	260-270	4.40-4.52	350-360	3.0-3.2	24.0-25.5	4.6-5.0
HF26/16	3.70-3.80	370-380	1.95-2.20	155-175	2.01-2.26	160-180	3.2-3.4	26.0-27.0	4.6-5.0
HF26/18	3.70-3.80	370-380	2.20-2.39	175-190	2.26-2.39	180-190	3.3-3.4	26.0-27.0	4.6-5.0
HF26/24	3.70-3.80	370-380	2.89-3.01	230-240	3.01-3.14	240-250	3.3-3.4	26.0-27.0	4.6-5.0
HF26/26	3.70-3.80	370-380	2.89-3.01	230-240	3.27-3.39	260-270	3.3-3.4	26.0-27.0	4.6-5.0
HF26/30	3.85-3.95	385-395	3.27-3.39	260-270	3.77-3.89	300-310	3.3-3.4	26.0-27.0	4.6-5.0
HF28/26	3.85-3.95	385-395	3.14-3.33	250-265	3.27-3.45	260-275	3.5-3.8	28.0-30.0	4.6-5.0
HF28/28	3.85-3.95	385-395	3.27-3.39	260-270	3.50-3.60	280-290	3.5-3.8	28.0-30.0	4.6-5.0
HF30/26	3.95-4.05	395-405	3.14-3.33	250-260	3.27-3.39	260-270	3.8-3.9	30.0-31.5	4.6-5.0
HF32/17	4.10-4.20	410-420	2.01-2.26	160-180	2.07-2.20	165-175	4.0-4.1	32.0-33.0	4.6-5.0
HF32/22	4.10-4.20	410-420	2.70-2.83	215-225	2.76-2.89	220-230	4.0-4.1	32.0-33.0	4.6-5.0
HF32/25	4.10-4.20	410-420	3.01-3.14	240-250	3.14-3.27	250-260	4.0-4.1	32.0-33.0	4.6-5.0