



### **Ceramic (Ferrite)**

Ceramic magnet material (Ferrite) is Strontium Ferrite. This material is one of the most cost effective magnetic materials manufactured in industry. The low cost is due to the cheap, abundant, and non-strategic raw materials used in manufacturing this alloy. The permanent magnets made with this material lend themselves to large production runs. This magnet material has a fair to good resistance to corrosion and it can operate in moderate heat. The majority of the world's Ceramic magnetic material comes from China because of the alloy's commodity nature and the high tooling costs found in the west. Ceramic magnets have a low Energy Product and they are usually used in an assembly containing mild steel.

**SJ/T10410-93**

Br		Hcb		Hcj		(BH)max	
mT	KG	KA/m	KOe	KA/m	KOe	KJ/m <sup>3</sup>	MGOe
320-380	3.2-3.8	135-190	1.70-2.58	140-195	1.76-2.45	18.0-22.0	2.3-2.8
360-400	3.6-4.0	135-170	1.7-2.14	140-200	1.76-2.51	22.5-28.0	2.8-3.5
370-400	3.7-4.0	175-210	2.20-2.64	180-220	2.26-2.77	26.0-30.0	3.3-3.8
380-400	3.8-4.0	230-275	2.89-3.46	235-290	2.95-3.65	27.0-32.5	3.4-4.1
395-415	3.95-4.15	275-300	3.46-3.77	310-335	3.90-4.21	28.5-32.0	3.5-4.0

**Chinese standard**

Br		Hcb		Hcj		(BH)max	
mT	KG	KA/m	KOe	KA/m	KOe	KJ/m <sup>3</sup>	KOe
200-235	2.0-2.35	125-160	1.57-2.01	210-280	2.64-3.52	6.5-9.5	0.8-1.2
320-380	3.2-3.8	135-190	1.70-2.38	140-195	1.76-2.45	18.0-22.0	2.3-2.8
310-360	3.1-3.6	220-250	2.77-3.14	280-320	3.52-4.02	20.0-24.0	2.5-3.2
320-370	3.2-3.7	170-190	2.14-2.38	190-230	2.39-2.89	20.0-25.5	2.5-3.2
360-400	3.6-4.0	135-170	1.70-2.14	140-200	1.76-2.51	22.5-28.0	2.8-3.5
360-390	3.6-3.9	220-250	2.77-3.14	225-255	2.83-3.21	23.0-28.0	2.9-3.5
370-400	3.7-4.0	205-250	2.58-3.14	10-255	2.64-3.21	25.0-29.0	3.1-3.7
370-400	3.7-4.0	175-210	2.2-2.64	180-220	2.64-2.77	26.0-30.0	3.3-3.8
380-390	3.8-3.9	223-235	2.80-2.95	231-245	2.90-3.08	27.0-30.0	3.4-3.7
360-400	3.6-4.0	135-170	1.70-2.14	140-200	1.76-2.51	22.5-28.0	2.8-3.5
380-400	3.8-4.0	230-275	2.89-3.46	235-290	2.95-3.65	27.0-32.0	3.4-4.0
395-415	3.95-4.15	275-300	3.46-3.77	310-335	3.90-4.21	28.5-32.5	3.5-4.0
400-420	4.0-4.2	160-190	3.01-2.38	165-195	2.07-2.45	30.0-33.5	3.8-4.2
410-430	4.1-4.3	220-250	2.77-3.14	225-255	2.83-3.21	31.5-35.0	4.0-4.4
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

**USA standard**

Br		Hcb		Hcj		(BH)max	
mT	KG	KA/m	KOe	KA/m	KOe	KJ/m <sup>3</sup>	KOe
230	2.3	148	1.86	258	3.5	8.36	1.05
380	3.8	1914	2.4	199	2.5	27	3.4
340	3.4	258	3.32	318	4.00	21.9	2.75



[Hard Ferrite Magne](#)

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