

牌号 Grade	剩磁 Br				矫顽力 HcB		内禀矫顽力 Hc j		最大磁能积 BH				推荐最高 工作温度
	KGs		T		KOe	KA/m	KOe	KA/m	MGOe		KJ/m ³		L/D≥0.7
	MAX	MIN	MAX	MIN	MIN	MIN	MIN	MIN	MAX	MIN	MAX	MIN	°C
N35	12.3	11.8	1.23	1.18	≥10.9	≥868	≥12	≥955	36	33	287	263	≤80
N38	12.6	12.3	1.26	1.23	≥11.3	≥899	≥12	≥955	39	36	311	287	≤80
N40	12.9	12.6	1.29	1.26	≥11.4	≥907	≥12	≥955	41	38	327	302	≤80
N42	13.3	12.9	1.33	1.29	≥11.5	≥915	≥12	≥955	43	40	342	318	≤80
N45	13.7	13.3	1.37	1.33	≥11.0	≥876	≥12	≥955	46	43	366	342	≤80
N48	14.1	13.7	1.41	1.37	≥10.5	≥836	≥12	≥955	49	45	390	358	≤80
N50	14.5	14.0	1.45	1.40	≥10.5	≥836	≥12	≥955	51	47	406	374	≤80
N52	14.8	14.3	1.48	1.43	≥10.5	≥836	≥11	≥876	53	49	422	390	≤70
38M	12.6	12.3	1.26	1.23	≥11.3	≥899	≥14	≥1114	39	36	311	287	≤100
40M	12.9	12.6	1.29	1.26	≥11.6	≥923	≥14	≥1114	41	38	327	302	≤100
42M	13.3	12.9	1.33	1.29	≥12	≥955	≥14	≥1114	43	40	342	318	≤100
45M	13.7	13.3	1.37	1.33	≥12.5	≥995	≥14	≥1114	46	43	366	342	≤100
48M	14.1	13.7	1.41	1.37	≥12.9	≥1027	≥14	≥1114	49	45	390	358	≤100
50M	14.5	14.0	1.45	1.40	≥13	≥1033	≥14	≥1114	51	47	406	374	≤100
35H	12.3	11.8	1.23	1.18	≥10.9	≥868	≥17	≥1353	36	33	287	263	≤120
38H	12.6	12.3	1.26	1.23	≥11.3	≥899	≥17	≥1353	39	36	311	287	≤120
40H	12.9	12.6	1.29	1.26	≥11.6	≥923	≥17	≥1353	41	38	327	302	≤120
42H	13.3	12.9	1.33	1.29	≥12	≥955	≥17	≥1353	43	40	342	318	≤120
45H	13.7	13.3	1.37	1.33	≥12.3	≥979	≥17	≥1353	46	43	366	342	≤120
48H	14.1	13.7	1.41	1.37	≥12.5	≥995	≥17	≥1353	49	46	390	366	≤120
50H	14.3	14.0	1.43	1.40	≥13.3	≥1058	≥17	≥1353	50	47	398	374	≤120
33SH	11.8	11.4	1.18	1.14	≥10.6	≥844	≥20	≥1592	34	31	271	247	≤150
35SH	12.3	11.8	1.23	1.18	≥11	≥876	≥20	≥1592	36	33	287	263	≤150
38SH	12.6	12.3	1.26	1.23	≥11.4	≥907	≥20	≥1592	39	36	311	287	≤150
40SH	12.9	12.6	1.29	1.26	≥11.6	≥939	≥20	≥1592	41	38	326	302	≤150
42SH	13.3	12.9	1.33	1.29	≥12.4	≥987	≥20	≥1592	43	40	342	318	≤150
45SH	13.7	13.2	1.37	1.32	≥12.6	≥1003	≥20	≥1592	46	42	366	334	≤150
48SH	14.0	13.7	1.4	1.37	≥13	≥1034	≥20	≥1592	49	49	390	366	≤150
33UH	11.8	11.4	1.18	1.14	≥10.7	≥852	≥25	≥1989	34	31	271	247	≤180
35UH	12.3	11.8	1.23	1.18	≥10.8	≥860	≥25	≥1989	36	33	287	263	≤180
38UH	12.6	12.3	1.26	1.23	≥11.3	≥899	≥25	≥1989	39	36	311	287	≤180
40UH	12.9	12.5	1.29	1.25	≥11.3	≥899	≥25	≥1989	41	38	326	302	≤180
42UH	13.3	12.8	1.33	1.28	≥11.6	≥923	≥25	≥1989	43	40	342	318	≤180
45UH	13.7	13.2	1.37	1.32	≥12.6	≥1003	≥25	≥1989	46	42	366	334	≤180
33EH	11.8	11.4	1.18	1.14	≥10.3	≥820	≥30	≥2388	34	31	271	247	≤200
35EH	12.3	11.7	1.23	1.17	≥10.5	≥836	≥30	≥2388	36	33	287	263	≤200
38EH	12.6	12.2	1.26	1.22	≥11.3	≥899	≥30	≥2388	39	35	311	278	≤200
40EH	12.9	12.6	1.29	1.26	≥11.6	≥939	≥30	≥2388	41	38	326	302	≤200
28TH	10.9	10.4	1.09	1.04	≥9.8	≥780	≥35	≥2785	29	26	231	207	≤230
30TH	11.3	10.8	1.13	1.08	≥10.1	≥804	≥35	≥2785	31	28	247	223	≤230

Notification: KM test all parameters above under 20-23 centigrade.

磁特性参数

SPECIAL PROPERTY DATA

项目 Item 牌号 Grade	温度系数%/℃ (Lost percent when heat up%) (20℃~150℃)		失重标准 (Lost weight standard) mg/cm ²
	Br	Hcj	
普通牌号 Normal Grade	- (0.11~0.12)	- (0.58~0.70)	≤80
“KMT 牌号” “T Grade”	- (0.095~0.115)	- (0.46~0.59)	≤15
“KML 牌号” “L Grade”	- (0.10~0.12)	- (0.55-0.65)	≤5
“KMTL 牌号” “TL Grade”	- (0.095~0.115)	- (0.46~0.59)	≤5

Notification:

- 1.KMT GRADE with lower temp coefficient, comparing with normal N series, with higher max working temp, applying to H series and above grade, such as 45HT, 35SHT, 38UHT, mainly used for motor or generator application;
- 2.KML grade is tested by HAST with good performance, comparing with normal N series, our factory use specific ingredients and manufacturing process to lower this parameter, held over 40 patents in neodymium magnet manufacturing. All parameter tested under 121 centigrade, 2 atm, humidity 95% above, lasts 168 hours;
- 3.KMTL combine both KMT and KML characteristics together, which widely used in motor magnet.

机械物理性能

PHYSICAL PROPERTY

参数 Parameter	参考值 Reference value	单位 Unit
维氏硬度(Vickers hardness)	≥550	Hv
密度(Density)	≥7.40	g/cm ³
回复磁导率μr (Recalpenmeability)	1.05	\
居里温度 Tc (Curle point)	312~380	℃
电阻率(Specific resistance)	150	μΩ·cm
抗弯强度(Bending strength)	250	MPa
抗压强度(Compressive strength)	1000~1100	MPa
热膨胀系数 (⊥取向方向) (Thermal expansion)	- (1~3) ×10 ⁻⁶ K	℃ ⁻¹
热膨胀系数 (//取向方向) (Thermal expansion)	(3~4) ×10 ⁻⁶ K	℃ ⁻¹