

	Energy product (B·H)max.		Remanence B _r		Rev. temp.-coeff. of B _r	Coercivity		Magnetising field strength	Max. operating temperature	Density		
	kJ/m ³ (typ.)	kJ/m ³ (min.)	mT (typ.)	mT (min.)		H _{cb} kA/m (min.)	H _{ci} kA/m (min.)				min. kA/m	approx. °C
Hard ferrite magnets ¹⁾												
HF 8/22	Ba isotropic	dry pressed	8,5	8	220	215	-0,19	135	220	1000	250	4,8
HF 24/16	Ba anisotropic	dry pressed	25,5	24	365	350	-0,19	155	160	800	250	5,0
HF 8/26 Sr	Sr isotropic	dry pressed	8,5	8	220	215	-0,19	135	260	1000	250	4,7
HF 24/23	Sr anisotropic	dry pressed	25,5	24	365	350	-0,19	210	230	1000	250	4,8
HF 26/24	Sr anisotropic	dry pressed	27	26	380	370	-0,19	220	240	1000	250	4,8
HF 28/26	Sr anisotropic	wet pressed	30	28	395	385	-0,19	240	260	1000	250	4,85
HF 28/28	Sr anisotropic	wet pressed	30	28	395	385	-0,19	260	280	1000	250	4,85
HF 30/26	Sr anisotropic	wet pressed	31,5	30	405	395	-0,19	240	260	1000	250	4,85

	kJ/m ³		mT		approx. %/K	H _{cb}		min. kA/m	approx. °C	approx. g/cm ³	
	(typ.)	(min.)	(typ.)	(min.)		H _{cb} kA/m (min.)	H _{ci} kA/m (min.)				
Rare earth magnets ¹⁾											
SmCo ₅ 143/143 q	anisotropic	151	143	920	900	-0,045 ²⁾	680	1433	3500	250 ³⁾	8,3
SmCo ₅ 160/143 q	anisotropic	167	160	940	920	-0,045 ²⁾	710	1433	3500	250 ³⁾	8,3
Sm ₂ Co ₁₇ 207/143 q	anisotropic	223	207	1080	1030	-0,03 ²⁾	716	1433	3500	300 ³⁾	8,3
Sm ₂ Co ₁₇ 180/160 w	anisotropic	200	180	1040	980	-0,032 ²⁾	700	1600	4300	350 ³⁾	8,3
Sm ₂ Co ₁₇ 195/160 h	anisotropic	220	195	1100	1040	-0,032 ²⁾	720	1600	4300	350 ³⁾	8,3
NdFeB 180/250 w	anisotropic	210	180	1050	1000	-0,08 ²⁾	720	2500	2000	220 ³⁾	7,6
NdFeB 200/220 w	anisotropic	230	200	1110	1050	-0,08 ²⁾	790	2200	2000	190 ³⁾	7,6
NdFeB 230/175 w	anisotropic	260	230	1190	1130	-0,09 ²⁾	840	1750	2400	160 ³⁾	7,6
NdFeB 250/125 w	anisotropic	280	250	1230	1170	-0,10 ²⁾	840	1250	2400	130 ³⁾	7,5
NdFeB 210/250 h	anisotropic	240	210	1110	1050	-0,08 ²⁾	800	2500	2000	220 ³⁾	7,6
NdFeB 230/220 h	anisotropic	255	230	1160	1100	-0,08 ²⁾	840	2200	2000	190 ³⁾	7,6
NdFeB 250/175 h	anisotropic	295	250	1240	1180	-0,09 ²⁾	860	1750	2400	160 ³⁾	7,6
NdFeB 270/125 h	anisotropic	300	270	1280	1220	-0,10 ²⁾	870	1250	2400	130 ³⁾	7,5
NdFeB 300/125 h	anisotropic	330	300	1320	1260	-0,10 ²⁾	900	1250	2400	130 ³⁾	7,5
NdFeB 263/111 q	anisotropic	275	263	1210	1170	-0,11 ²⁾	868	1114	2400	100 ³⁾	7,6
NdFeB 358/111 q	anisotropic	375	358	1390	1360	-0,11 ²⁾	907	1114	2400	100 ³⁾	7,6
NdFeB 223/135 q	anisotropic	235	223	1110	1080	-0,11 ²⁾	796	1353	2400	120 ³⁾	7,6
NdFeB 287/135 q	anisotropic	300	287	1240	1220	-0,11 ²⁾	899	1353	2400	120 ³⁾	7,6
NdFeB 342/135 q	anisotropic	355	342	1350	1320	-0,11 ²⁾	907	1353	2400	120 ³⁾	7,6
NdFeB 247/159 q	anisotropic	260	247	1160	1130	-0,11 ²⁾	820	1592	2400	150 ³⁾	7,6
NdFeB 287/159 q	anisotropic	300	287	1240	1220	-0,11 ²⁾	907	1592	2400	150 ³⁾	7,6
NdFeB 318/159 q	anisotropic	330	318	1310	1280	-0,11 ²⁾	907	1592	2400	150 ³⁾	7,6
NdFeB 223/199 q	anisotropic	235	223	1110	1080	-0,11 ²⁾	804	1990	2400	180 ³⁾	7,6
NdFeB 263/199 q	anisotropic	275	263	1200	1170	-0,11 ²⁾	860	1990	2400	180 ³⁾	7,6
NdFeB 223/238 q	anisotropic	235	223	1110	1080	-0,11 ²⁾	796	2387	2400	200 ³⁾	7,6
NdFeB 263/238 q	anisotropic	275	263	1200	1170	-0,11 ²⁾	836	2387	2400	200 ³⁾	7,6
NdFeB 247/262 q	anisotropic	260	247	1160	1130	-0,11 ²⁾	820	2624	2400	230 ³⁾	7,6

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	kJ/m ³ (typ.)	kJ/m ³ (min.)	mT (typ.)	mT (min.)		approx. %/K	H _{cb} kA/m (min.)		H _{cj} kA/m (min.)	min. kA/m	approx. °C	
Plastic-bonded, pressed NdFeB-magnets ¹⁾												
NdFeB 65/70 pw isotropic	70	65	650	610	-0,14 ²⁾	390	700	2800	130 ³⁾			6,0
NdFeB 65/85 pw isotropic	72	65	650	610	-0,13 ²⁾	420	850	2800	140 ³⁾			6,0
NdFeB 72/70 pw isotropic	80	72	700	660	-0,11 ²⁾	440	700	2800	130 ³⁾			6,0

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	kJ/m ³ (typ.)	kJ/m ³ (min.)	mT (typ.)	mT (min.)		approx. %/K	H _{cb} kA/m (min.)		H _{cj} kA/m (min.)	min. kA/m	approx. °C PA 6 ⁴⁾	
Plastic-bonded, injection-moulded hard ferrite magnets ¹⁾												
HF 14/22 p anisotropic	14,5	14,0	275	265	-0,19	180	220	800	120-160 ³⁾	120-140 ³⁾	220 ³⁾	3,6
HF 16/19 p anisotropic	16,5	16,0	290	280	-0,19	160	190	800		120-140 ³⁾		3,7

	Energy product (B [*] H)max.		Remanence B _r		Rev. temp.-coeff. of B _r	Coercivity		Magnetising field strength	Max. operating temperature			Density
	kJ/m ³ (typ.)	kJ/m ³ (min.)	mT (typ.)	mT (min.)		approx. %/K	H _{cb} kA/m (min.)		H _{cj} kA/m (min.)	min. kA/m	approx. °C PA 12	
Plastic-bonded, injection-moulded rare earth magnets ¹⁾												
NdFeB 30/60 p isotropic	33,0	30,0	435	420	-0,11 ²⁾	290	600	2800		120-140 ³⁾	120-160 ³⁾	4,1
NdFeB 37/60 p isotropic	39,0	37,0	475	465	-0,11 ²⁾	320	600	2800		120-140 ³⁾	120-160 ³⁾	4,5
NdFeB 42/60 p isotropic	44,0	42,0	510	490	-0,11 ²⁾	335	600	2800		120-140 ³⁾	120-160 ³⁾	4,7
NdFeB 48/60 p isotropic	50,0	48,0	540	530	-0,11 ²⁾	360	600	2800		120-140 ³⁾	120-160 ³⁾	4,8
NdFeB 55/60 p isotropic	57,0	55,0	570	560	-0,11 ²⁾	375	600	2800		120-140 ³⁾	120-160 ³⁾	5,2
NdFeB 27/80 p isotropic	29,0	27,0	410	400	-0,13 ²⁾	270	800	2800		120-140 ³⁾	140-180 ³⁾	4,1
NdFeB 32/80 p isotropic	34,0	32,0	445	435	-0,13 ²⁾	295	800	2800		120-140 ³⁾	140-180 ³⁾	4,4
NdFeB 38/80 p isotropic	41,5	38,0	485	470	-0,13 ²⁾	320	800	2800		120-140 ³⁾	140-180 ³⁾	4,7
NdFeB 43/80 p isotropic	46,0	43,0	515	505	-0,13 ²⁾	340	800	2800		120-140 ³⁾	140-180 ³⁾	5,0
NdFeB 46/80 p isotropic	48,0	46,0	530	515	-0,13 ²⁾	350	800	2800		120-140 ³⁾	140-180 ³⁾	5,2
NdFeB 49/80 p isotropic	52,0	49,0	555	545	-0,13 ²⁾	365	800	2800		120-140 ³⁾	140-180 ³⁾	5,3
NdFeB 76/110 p anisotropic	88,0	76,0	700	660	-0,13 ²⁾	460	1100	2400		100-120 ³⁾	100-120 ³⁾	4,8

¹⁾ All values were determined with standard samples according to IEC 60404-5. With unusual geometries, especially with thin walls or narrow pole pitches, deviations from the material data can occur.

²⁾ In the temperature range from 20 °C to 100 °C.

³⁾ The max. operating temperature depends on the magnet dimension and the specific application. Please contact our application engineering for more information.

⁴⁾ For binder PA 6 the magnetic values for H_{cb} min./H_{cb} typ. are reduced by -10 kA/m each and H_{cj} min./H_{cj} typ. by -30 kA/m each.

⁵⁾ For magnets with PPS as binder, the chemical resistance to oils, grease, motor oils etc. is significantly better than for PA-bonded magnets; however this has to be checked in individual cases.

⁶⁾ On request.

w: axially pressed in the die

h: highly residual materials - isostatically pressed and separated or diametrically pressed in the die

pw: plastic-bonded, pressed

p: plastic-bonded, injection-moulded

q: diametrically die pressed