

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Magnetic materials –
Part 8-1: Specifications for individual materials – Magnetically hard materials**

**Matériaux magnétiques –
Partie 8-1: Spécifications pour matériaux particuliers – Matériaux
magnétiquement durs**

Table 13 – Magnetic properties and densities of REFeB magnets

Material		Code number	Manufacturing	Magnetic properties				Density ρ Mg/m ³	
Brief designation	Magnetic anisotropy ^a			Maximum BH product (BH) _{max} kJ/m ³	Remanent flux density B_r mT	Coercivity H_{cB} kA/m	Coercivity H_{cJ} kA/m		Relative recoil permeability μ_{rec}
REFeB								Typical values	
REFeB 170/190	a	R7-1-1	Sintered	170	980	700	1 900		1,05
REFeB 210/130	a	R7-1-2		210	1 060	790	1 300		
REFeB 250/120	a	R7-1-3		250	1 130	840	1 200		
REFeB 290/80	a	R7-1-4		290	1 230	700	800		
REFeB 200/190	a	R7-1-5		200	1 060	760	1 900		
REFeB 240/180	a	R7-1-6		240	1 160	840	1 800		
REFeB 280/120	a	R7-1-7		280	1 240	900	1 200		
REFeB 320/88	a	R7-1-8		320	1 310	800	880		
REFeB 210/240	a	R7-1-9		210	1 060	760	2 400		
REFeB 240/200	a	R7-1-10		240	1 160	840	2 000		
REFeB 310/130	a	R7-1-11		310	1 300	900	1 300		
REFeB 250/240	a	R7-1-12		250	1 200	830	2 400		
REFeB 260/200	a	R7-1-13		260	1 210	840	2 000		
REFeB 340/130	a	R7-1-14		340	1 330	920	1 300		
REFeB 360/90	a	R7-1-15		360	1 350	800	900		
REFeB 380/100	a	R7-1-16		380	1 420	990	1 000		

Specified minimum values

Typical values of the parameters:
 Temperature coefficient of remanence $\alpha(B_r) = -0,1 \text{ } \%/^{\circ}\text{C}$ to $-0,12 \text{ } \%/^{\circ}\text{C}$ (for 20 °C to 100 °C)
 Temperature coefficient of coercivity $\alpha(H_{cJ}) = -0,45 \text{ } \%/^{\circ}\text{C}$ to $-0,6 \text{ } \%/^{\circ}\text{C}$ (for 20 °C to 100 °C)
 Curie temperature: 310 °C
 Maximum operating temperature: 200 °C.
 a a = anisotropic