



MATERIAL DATA

Magnetic values as in DIN IEC 60404-8-1

Energy product (B·H) _{max.}	typ.	kJ/m ³	25.50
	min.	kJ/m ³	24
Remanence B _r	typ.	mT	365
	min.	mT	350
revers. Temp.- coeff. of B _r	approx.	%/K	-0.19
Coercivity H _c	H _{cB} typ.	kA/m	220
revers. Temp.- coeff. of H _{cJ}	H _{cB} min.	kA/m	210
	H _{cJ} typ.	kA/m	240
	H _{cJ} min.	kA/m	230
	approx.	%/K	+0.3
relative permanent permeability μ _{rec.}	approx.		1.1
Curie temperature	approx.	°C	450
max. operating temperature	approx.	°C	250

Mechanical values

Density	approx.	g/cm ³	4.8
Hardness	approx.	Mohs	6-7
	approx.	HV	500-600
Elasticity modulus	approx.	10 ⁹ N/mm ²	150
Compressive strength	approx.	N/mm ²	700
Tensile strenght	approx.	N/mm ²	50
Flexural strength	approx.	N/mm ²	55
Expansion coefficient	p.p.d. ¹⁾	approx. 10 ⁻⁶ /K	10-11
	i.p.d. ²⁾		12-13
spec. elec. resistance	approx.	10 ⁻⁶ Ωm	>10 ⁴
spec. heat capacity	approx.	J/(kg·K)	700
Thermal conductivity	approx.	W/mK	4

¹⁾ p.p.d. = perpendicular to preferred direction

²⁾ i.p.d. = in preferred direction

All values indicated were determined on standard samples following IEC 60404-5.

Matrix passed magnets of various shapes and sizes may differ in their magnetic ratings.