

RARE EARTH MAGNETS
NdFeB 247/262
 anisotropic



MATERIAL DATA			20 °C
NdFeB 247/262			
anisotropic			
Magnetic values as in DIN IEC 60404-8-1			
Energy product (B·H) _{max.}	typ.	kJ/m ³	260
	min.	kJ/m ³	247
Remanence B _r	typ.	mT	1160
	min.	mT	1130
revers. Temp.- coeff. of B _r	approx. ¹⁾	%/K	-0.11
Coercivity H _c	H _{cB} min.	kA/m	>820
	H _{cJ} min.	kA/m	>2624
revers. Temp.- coeff. of H _{cJ}	approx. ²⁾	%/K	-0.6
relative permanent permeability μ _{rec.}	approx.		1.1
Curie temperature	approx.	°C	350
max. operating temperature	approx. ⁵⁾	°C	230
Magnetising field strength	min.	kA/m	~2400

Mechanical values			20 °C
Density	approx.	g/cm ³	
Vickers hardness		HV	500-700
Elasticity modulus	approx.	10 ⁹ N/mm ²	150
Compressive strength	approx.	N/mm ²	1000
Flexural strength	approx.	N/mm ²	250
Expansion coefficient	p.p.d. ³⁾	Approx. 10 ⁻⁶ /K	-2
	i.p.d. ⁴⁾		5
spec. elec. resistance	approx.	10 ⁻⁶ Ωm	1.6
spec. heat capacity	approx.	J/(kg·K)	440
Thermal conductivity	approx.	W/mK	8

¹⁾ In the temperature range from 20° C to 100° C.
²⁾ At higher temperatures, the temperature coefficient has smaller values
³⁾ p.p.d. = perpendicular to preferred direction
⁴⁾ i.p.d. = in preferred direction
⁵⁾ The max. operating temperature depends on the magnet dimension and the specific application. Please contact our application engineering for more information.

All values indicated were determined on standard samples according to IEC 60404-5.
 Depending on the shape and dimensions as well as for coated magnets there could occur deviations.