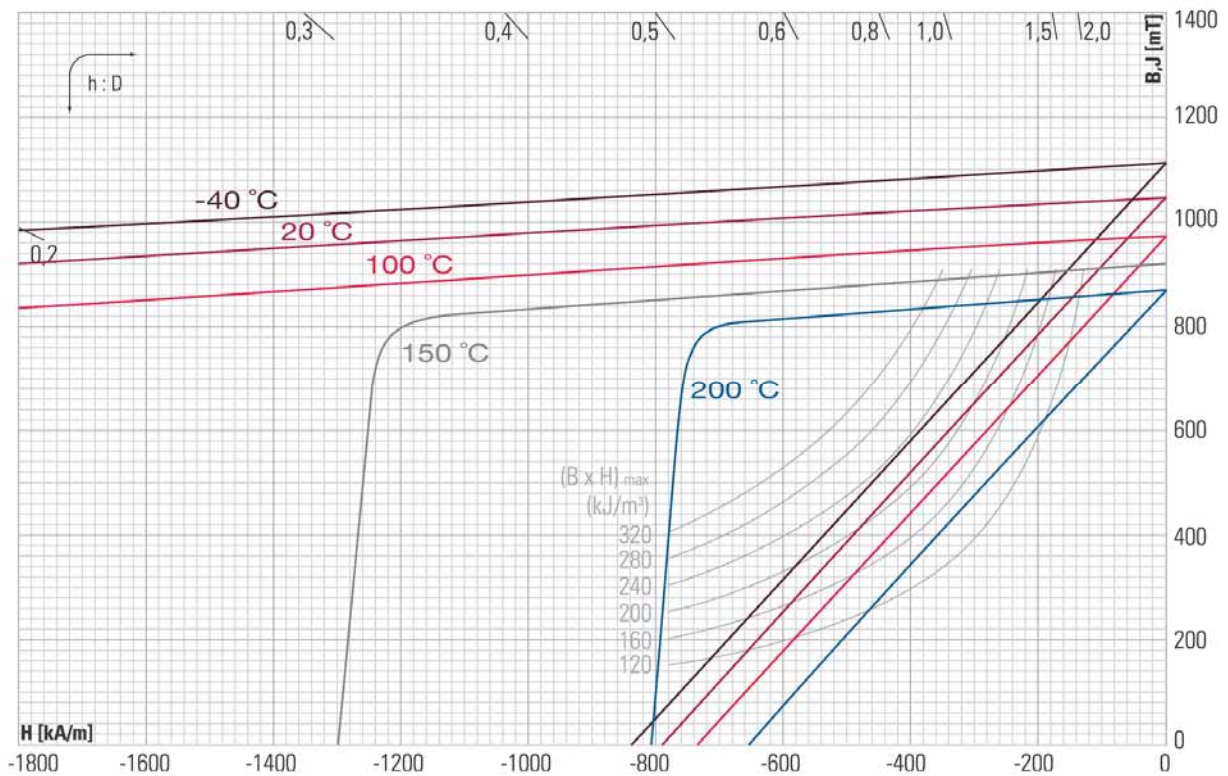


RARE EARTH MAGNETS
NdFeB* 180/250 w
 anisotropic



MATERIAL DATA

Magnetic values according to DIN IEC 60404-8-1

			20 °C	150 °C
Energy product (B·H) _{max.}	typ.	kJ/m ³	210	160
	min.	kJ/m ³	180	130
Remanence B _r	typ.	mT	1050	920
	min.	mT	1000	880
Revers. temp.-coeff. of B _r	approx.	%/K	-0.08 ¹⁾	
Coercivity H _c	H _{cB} typ.	kA/m	790	680
	H _{cB} min.	kA/m	720	610
	H _{cJ} typ.	kA/m	2800	1300
	H _{cJ} min.	kA/m	2500	1050
Revers. temp.-coeff. of H _{cJ}	approx.	%/K	-0.5 ¹⁾	
Relative permanent permeability μ _{rec.}	approx.		1.1	
Curie temperature	approx.	°C	350	
Max. operating temperature	approx.	°C	220 ²⁾	
Magnetising field strength	min.	kA/m	>2000	

Mechanical values

			20 °C
Density	approx.	g/cm ³	7.6
Vickers hardness	approx.	HV	560-580
Elasticity modulus	approx.	10 ³ 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	-1
	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⁾ The max. operating temperature depends on the magnet dimension and the specific application. Please contact our application engineering for more information.
- ³⁾ p.p.d. = perpendicular to preferred direction
- ⁴⁾ i.p.d. = in preferred direction
- * Licenced from Hitachi Metals Ltd.

All values indicated were determined on standard samples according to IEC 60404-5. Matrix pressed magnets of various shapes and sizes may differ in their magnetic ratings.