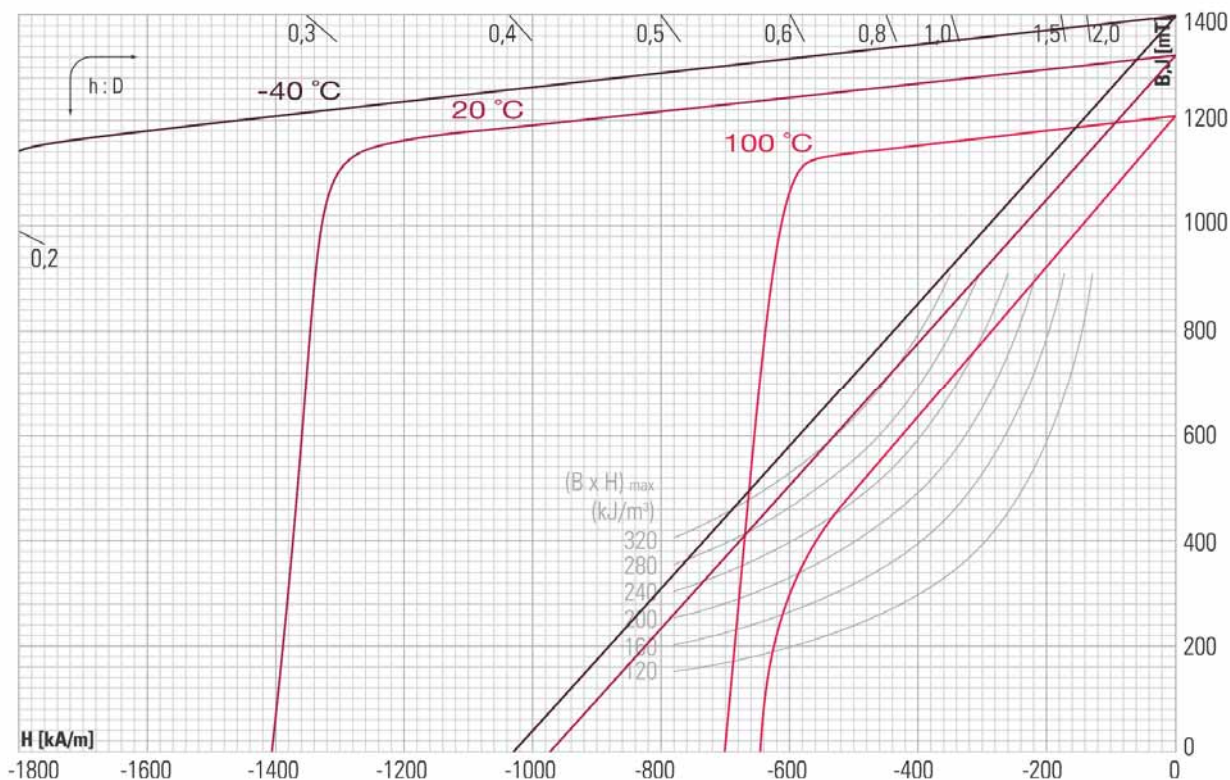


RARE EARTH MAGNETS  
**NdFeB\* 300/125 h**  
 anisotropic



**MATERIAL DATA**

Magnetic values according to  
 DIN IEC 60404-8-1

			20 °C	100 °C
Energy product (B·H) <sub>max.</sub>	typ.	kJ/m <sup>3</sup>	330	260
	min.	kJ/m <sup>3</sup>	300	240
Remanence B <sub>r</sub>	typ.	mT	1320	1185
	min.	mT	1260	1160
Revers. temp.- coeff. of B <sub>r</sub>	approx.	%/K	-0.10 <sup>1)</sup>	
Coercivity H <sub>c</sub>	H <sub>cB</sub> typ.	kA/m	950	650
	H <sub>cB</sub> min.	kA/m	900	540
	H <sub>cJ</sub> typ.	kA/m	1400	700
	H <sub>cJ</sub> min.	kA/m	1250	550
Revers. temp.- coeff. of H <sub>cJ</sub>	approx.	%/K	-0.6 <sup>1)</sup>	
Relative permanent permeability μ <sub>rec.</sub>	approx.		1.1	
Curie temperature	approx.	°C	330	
Max. operating temperature	approx.	°C	130 <sup>2)</sup>	
Magnetising field strength	min.	kA/m	>2400	

**Mechanical values**

			20 °C
Density	approx.	g/cm <sup>3</sup>	7.5
Vickers hardness	approx.	HV	560-580
Elasticity modulus	approx.	10 <sup>3</sup> N/mm <sup>2</sup>	150
Compressive strength	approx.	N/mm <sup>2</sup>	1000
Flexural strength	approx.	N/mm <sup>2</sup>	250
Expansion coefficient	p.p.d. <sup>3)</sup>	approx. 10 <sup>-6</sup> /K	-1
	i.p.d. <sup>4)</sup>		5
Spec. elec. resistance	approx.	10 <sup>-6</sup> Ωm	1.6
Spec. heat capacity	approx.	J/(kg·K)	440
Thermal conductivity	approx.	W/mK	8

- <sup>1)</sup> In the temperature range from 20 °C to 100 °C.
  - <sup>2)</sup> The max. operating temperature depends on the magnet dimension and the specific application. Please contact our application engineering for more information.
  - <sup>3)</sup> p.p.d. = perpendicular to preferred direction
  - <sup>4)</sup> 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.