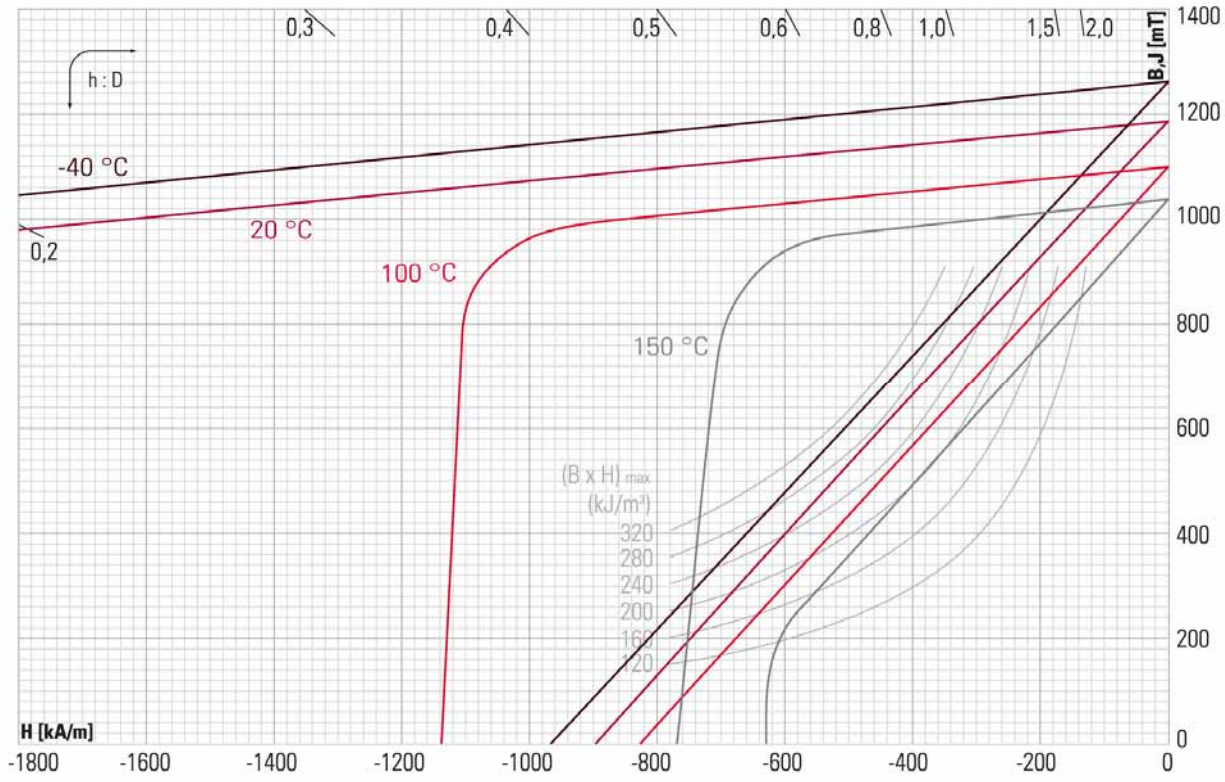
RARE EARTH MAGNETS

NdFeB* 230/175 w

anisotropic



MATERIAL DATA
Magnetic values according to DIN IEC 60404-8-1

			20 °C	150 °C
Energy product $(B{\cdot}H)_{max.}$	typ.	kJ/m³	260	190
	min.	kJ/m³	230	165
Remanence B_r	typ.	mT	1190	1020
	min.	mT	1130	970
Revers. temp.-coeff. of B_r	approx.	%/K	-0.09 [1]	
Coercivity H_C	H_{cB} typ.	kA/m	890	620
	H_{cB} min.	kA/m	840	480
	H_{cJ} typ.	kA/m	1900	650
	H_{cJ} min.	kA/m	1750	500
Revers. temp.-coeff. of H_{CJ}	approx.	%/K	-0.6 [1]	
Relative permanent permeability $\mu_{rec.}$	approx.		1.1	
Curie temperature	approx.	°C	340	
Max. operating temperature	approx.	°C	160 [2]	
Magnetising field strength	min.	kA/m	>2400	

Mechanical values			20 °C
Density	approx.	g/cm³	7.6
Vickers hardness	approx.	HV	560-580
Elasticity modulus	approx.	10^3N/mm²	150
Compressive strength	approx.	N/mm²	1000
Flexural strength	approx.	N/mm²	250
Expansion coefficient	p.p.d. [3]	approx. 10^{-6}/K	-1
	i.p.d. [4]		5
Spec. elec. resistance	Approx.	$10^{-6}\Omega$m	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
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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.

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