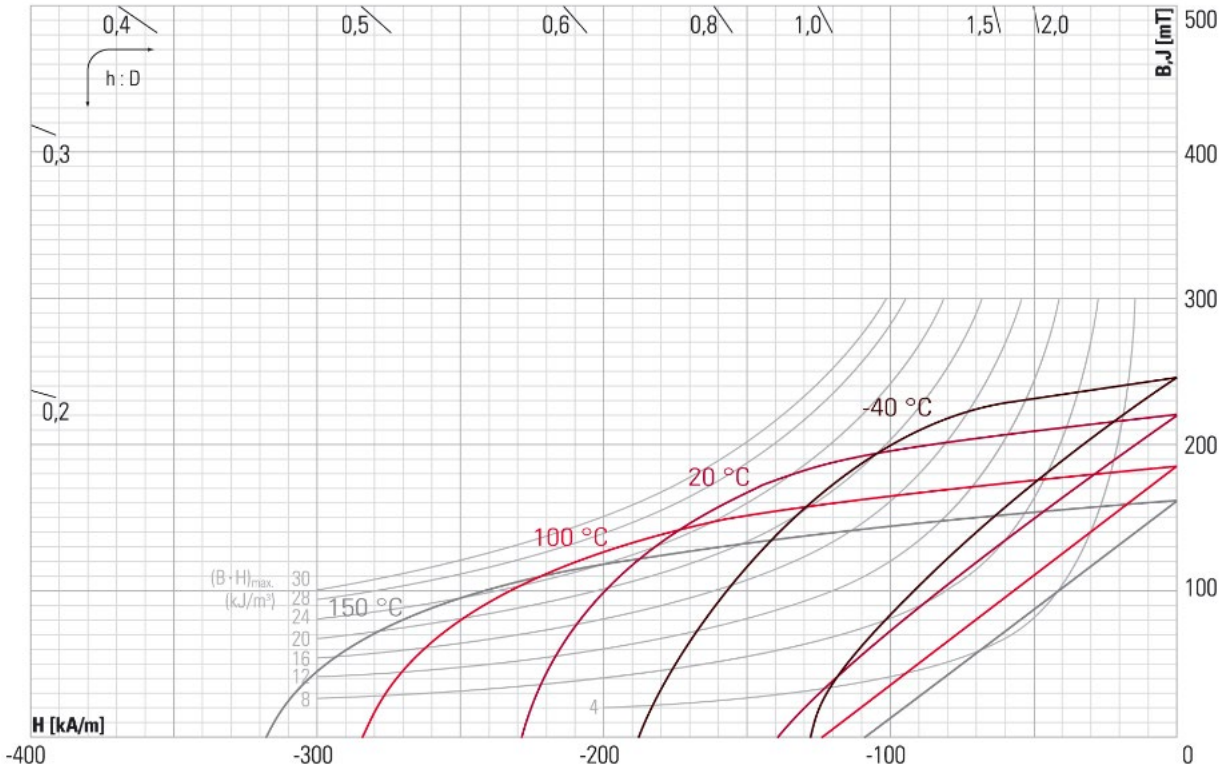
HARD FERRITE MAGNETS

Barium ferrite HF 8/22

isotropic, dry pressed



MATERIAL DATA

Magnetic values as in DIN IEC 60404-8-1

Energy product $(B{\cdot}H)_{max.}$	typ.	kJ/m³	8.5
	min.	kJ/m³	8
Remanence B_r	typ.	mT	220
	min.	mT	215
revers. Temp.-coeff. of B_r	approx.	%/K	-0.19
Coercivity H_C	H_{cB} typ.	kA/m	140
revers. Temp.-coeff. of H_{CJ}	H_{cB} min.	kA/m	135
	H_{cJ} typ.	kA/m	230
	H_{cJ} min.	kA/m	220
	approx.	%/K	+0,3
relative permanent permeability $\mu_{rec.}$	approx.		1,2
Curie temperature	approx.	°C	450
max. operating temperature	approx.	°C	250

Mechanical values

Density	approx.	g/cm³	4.8
Hardness	approx.	Mohs	6-7
	approx.	HV	500-600
Elasticity modulus	approx.	10^3N/mm²	150
Compressive strength	approx.	N/mm²	700
Tensile strenght	approx.	N/mm²	50
Flexural strength	approx.	N/mm²	55
Expansion coefficient	p.p.d. [1]	approx. 10^{-6}/K	9-10
	i.p.d. [2]		
spec. elec. resistance	approx.	$10^{-6}\Omega$m	$>10^4$
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.

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