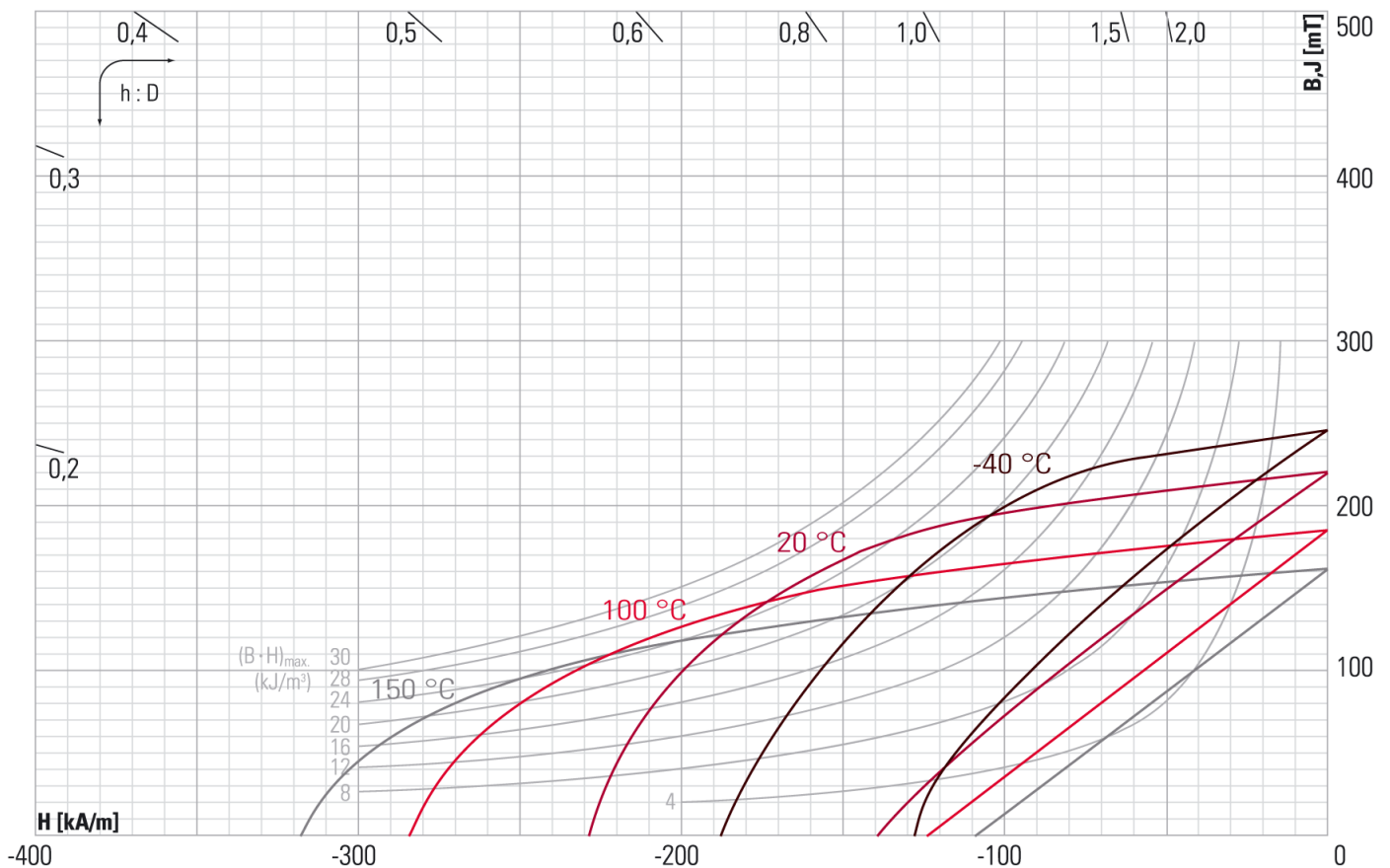


HARD FERRITE MAGNETS

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/m^3	8,5
	min.	kJ/m^3	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
	H_{cB} min.	kA/m	135
	H_{cJ} typ.	kA/m	230
	H_{cJ} min.	kA/m	220
revers. Temp. coeff. of H_{cJ}	approx.	%/K	+0,3
relative permanent permeability $\mu_{rec.}$	approx.		1,2
Curie temperature	approx.	$^{\circ}\text{C}$	450
max. operating temperature	approx.	$^{\circ}\text{C}$	250

Mechanical values

Density	approx.	g/cm^3	4,8
Hardness	approx.	Mohs	6-7
		HV	500-600
Elasticity modulus	approx.	10^3N/mm^2	150
Compressive strength	approx.	N/mm^2	700
Tensile strength	approx.	N/mm^2	50
Flexural strength	approx.	N/mm^2	55
Expansion coefficient	p.p.d. ¹⁾ i.p.d. ²⁾	approx. $10^{-6}/\text{K}$	9-10
spec. elec. resistance	approx.	Ωm	$>10^4$
spec. heat capacity	approx.	$\text{J}/(\text{kg} \cdot \text{K})$	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 pressed magnets of various shapes and sizes may differ in their magnetic ratings.