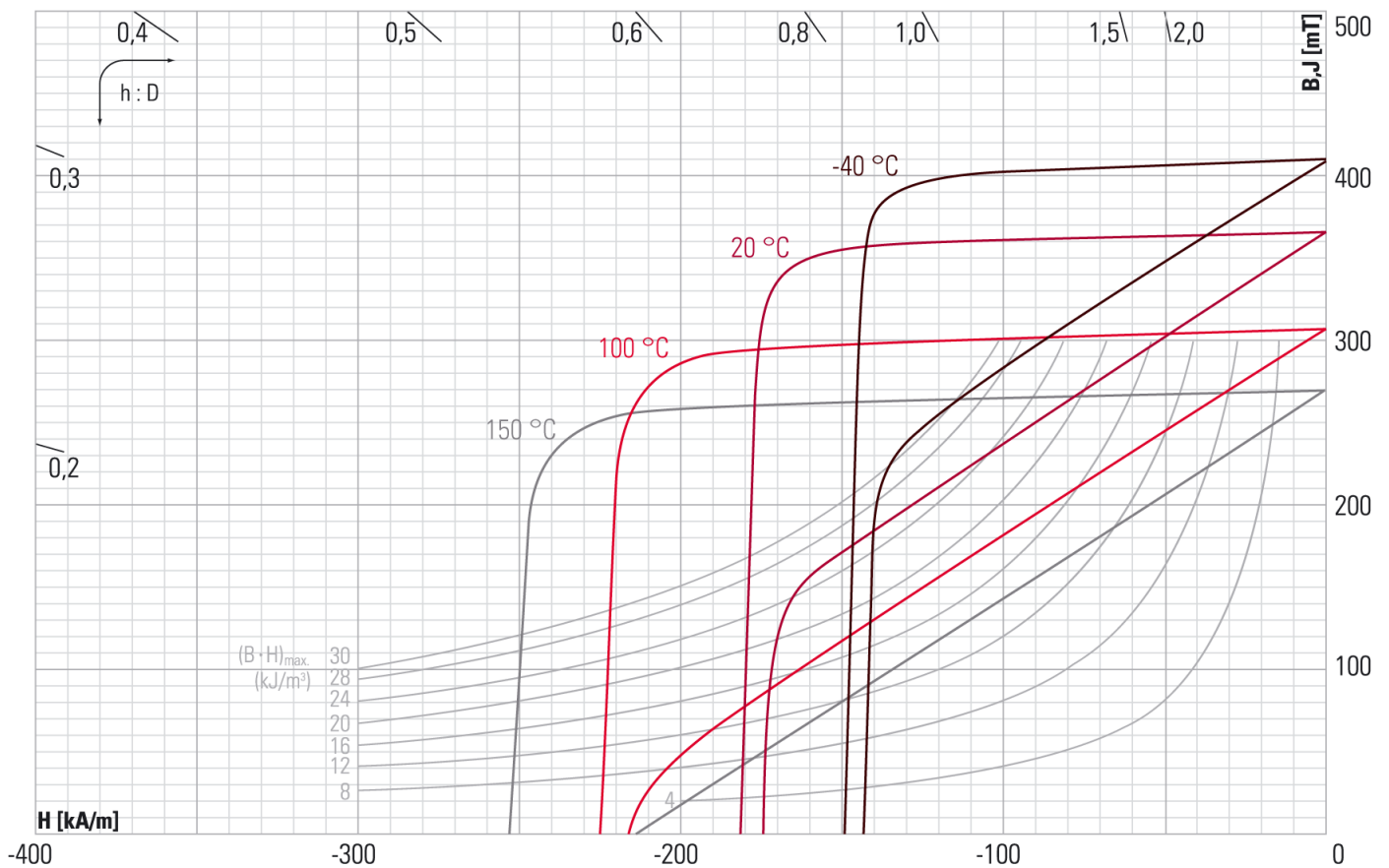


HARD FERRITE MAGNETS

Barium ferrite HF 24/16

anisotropic, dry pressed



MATERIAL DATA

Magnetic values as in DIN IEC 60404-8-1

Energy product $(B \cdot H)_{\max}$	typ.	kJ/m^3	25,5
	min.	kJ/m^3	24
Remanence B_r	typ.	mT	365
	min.	mT	350
revers. Temp. coeff. of B_r	approx.	%/K	-0,19
Coercivity H_C	H_{cB} typ.	kA/m	175
	H_{cB} min.	kA/m	155
	H_{cJ} typ.	kA/m	180
	H_{cJ} min.	kA/m	160
revers. Temp. coeff. of H_{cJ}	approx.	%/K	+0,3
relative permanent permeability μ_{rec}	approx.		1,1
Curie temperature	approx.	$^{\circ}\text{C}$	450
max. operating temperature	approx.	$^{\circ}\text{C}$	250

Mechanical values

Density	approx.	g/cm^3	5,0
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⁾	approx. $10^{-6}/\text{K}$	10-11
	i.p.d. ²⁾		12-13
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.