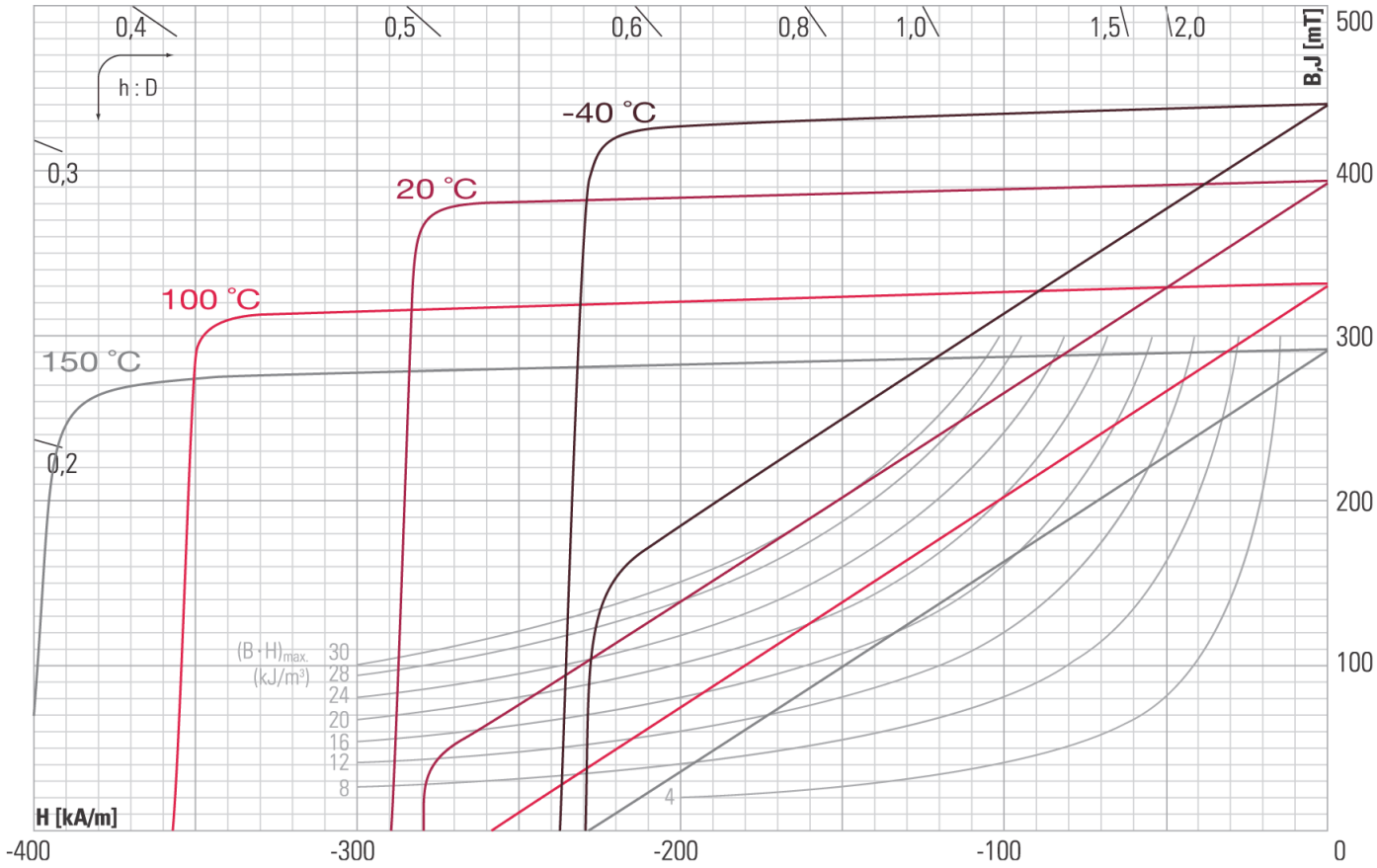
HARD FERRITE MAGNETS

Strontium ferrite HF 28/28

anisotropic, wet pressed

SCHRAMBERG
Magnet- und Kunststofftechnik



MATERIAL DATA

Magnetic values as in DIN IEC 60404-8-1

Energy product $(B•H)_{max.}$	typ.	kJ/m^3	30
	min.	kJ/m^3	28
Remanence B_r	typ.	mT	395
	min.	mT	385
revers. Temp. coeff. of B_r	approx.	%/K	-0,19
Coercivity H_C	H_{cB} typ.	kA/m	270
	H_{cB} min.	kA/m	260
	H_{cJ} typ.	kA/m	290
	H_{cJ} min.	kA/m	280
revers. Temp. coeff. of H_{cJ}	approx.	%/K	+0,3
relative permanent permeability $\mu_{rec.}$	approx.		1,1
Curie temperature	approx.	°C	450
max. operating temperature	approx.	°C	250

Mechanical values

Density	approx.	g/cm^3	4,85
Hardness	approx.	Mohs	6-7
		HV	500-600
Elasticity modulus	approx.	$10^3 N/mm^2$	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. $10^{-6}/K$	10-11
	i.p.d.[2]		12-13
spec. elec. resistance	approx.	Ωm	$>10^4$
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 pressed magnets of various shapes and sizes may differ in their magnetic ratings.

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