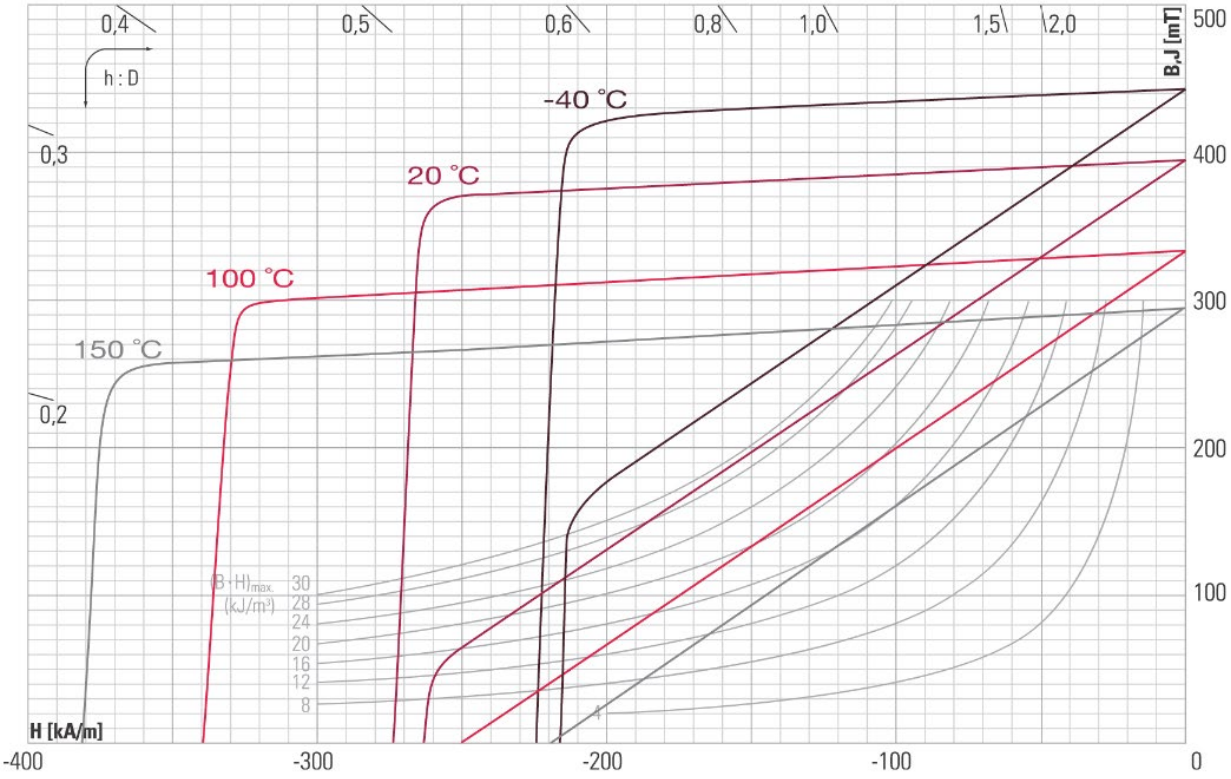
HARD FERRITE MAGNETS

# Strontium ferrite HF 28/26

anisotropic, wet pressed




## MATERIAL DATA

Magnetic values as in DIN IEC 60404-8-1

| | | | |
|---|---|---|---|
| Energy product $(B{\cdot}H)_{max.}$ | typ. | kJ/m³ | 30 |
| | min. | kJ/m³ | 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 | 255 |
| revers. Temp.-coeff. of $H_{CJ}$ | $H_{cB}$ min. | kA/m | 240 |
| | $H_{cJ}$ typ. | kA/m | 275 |
| | $H_{cJ}$ min. | kA/m | 260 |
| | 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/cm³ | 4.85 |
| Hardness | approx. | Mohs | 6-7 |
| | approx. | HV | 500-600 |
| Elasticity modulus | approx. | $10^3$N/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 | 10-11 |
| | i.p.d. [2] | | 12-13 |
| 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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