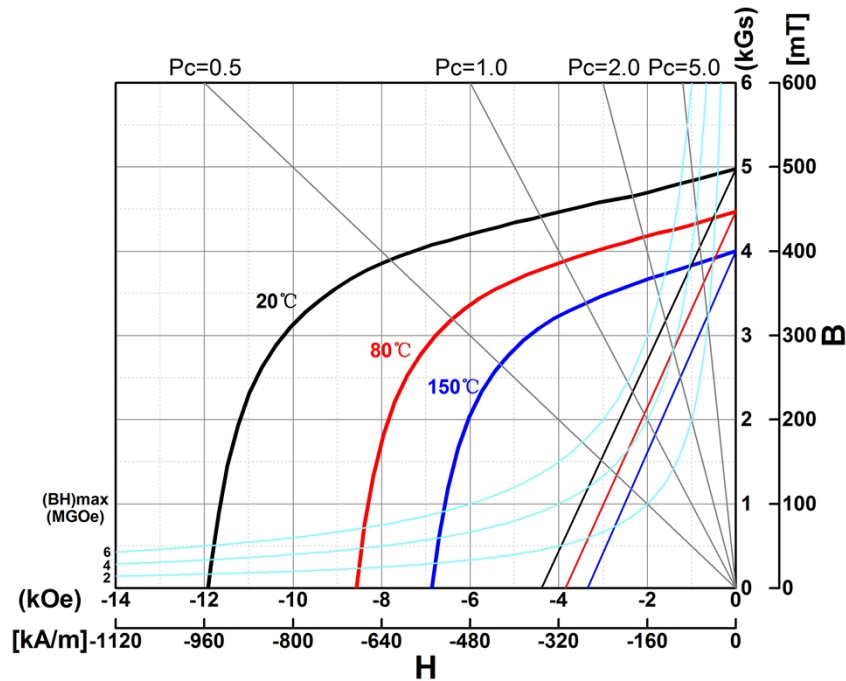


Material Datasheet of BNI-5SR

Demagnetization Curve



Magnetic Properties

Residual Induction B_r	[mT] (kG)	450~550 4.5~5.5	Tem. Coeff. of Br $\alpha(B_r)$	[%/K]	-0.11
Coercivity H_{cB}	[kA/m] (kOe)	320~400 4.0~5.0	Tem. Coeff. of Hcj $\alpha(H_{cj})$	[%/K]	-0.35
Intrinsic Coercivity H_{cJ}	[kA/m] (kOe)	880~1120 11.0~14.0	Recoil Permeability μ_{rec}		1.20
Max. Energy Product $(BH)_{max}$	[kJ/m ³] (MGOe)	36.0~44.0 4.5~5.5	Max. Operating Tem. T_w	°C	180

Physical Properties

Density (ρ)	g/cm ³	4.8~5.3
Bending Strength	MPa	71
Tensile Strength	MPa	33
Young's Modulus	MPa	25000
Expansion Coeff.	10 ⁻⁶ /K	21
Spec. Elec. Resistance	$\mu\Omega\cdot m$	130

*: []: in the unit of SI

(): in the unit of CGS

The specification of the test sample is $\phi 10 \times 10$ column.

These values may vary depending on the magnet's shape and dimensions. It is recommended that the figures be verified in actual products