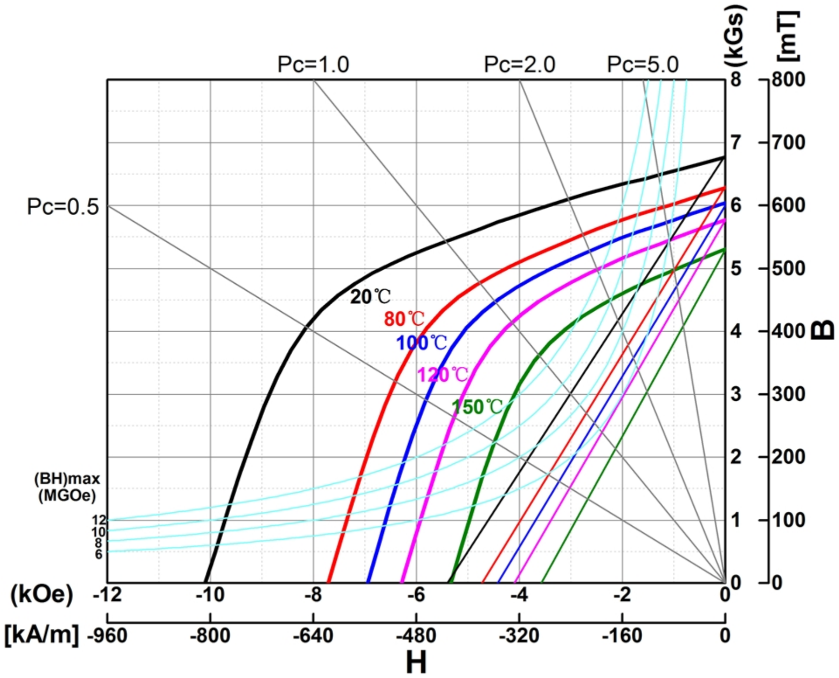
宁波韵升
NINGBO YUNSHENG

Material Datasheet of BNP-10H

Demagnetization Curve



Magnetic Properties

Residual Induction B_r	[mT] (kG)	650~710 6.5~7.1	**Tem. Coeff. of Hcj** $\alpha(H_{cj})$	[%/K]	-0.34
Coercivity H_{cB}	[kA/m] (kOe)	432~480 5.4~6.0	**Recoil Permeability** μ_{rec}		1.20
Intrinsic Coercivity H_{cJ}	[kA/m] (kOe)	784~960 9.8~12.0	**Curie Tem.** T_c	°C	350
Max. Energy Product $(BH)_{max}$	[kJ/m^3] (MGOe)	74.0~82.0 9.3~10.3	**Max. Operating Tem.** T_w	°C	180
Tem. Coeff. of Br $\alpha(B_r)$	[%/K]	-0.10			

Physical Properties

Density (ρ)	g/cm^3	5.8~6.1
Vickers Hardness	HV	350~380
Modulus of Elastically	kN/mm^2	700~1000
Compressive Strength	N/mm^2	80~120
Expansion Coeff.	10^{-6}/K	10~30
Spec. Elec. Resistance	$10^{-6}\Omega\cdot$m	1~3
Thermal Conductivity	W/m·K	2

*: [ ]: in the unit of SI

( ): in the unit of CGS

The specification of the test sample is ϕ10×10 column.

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

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