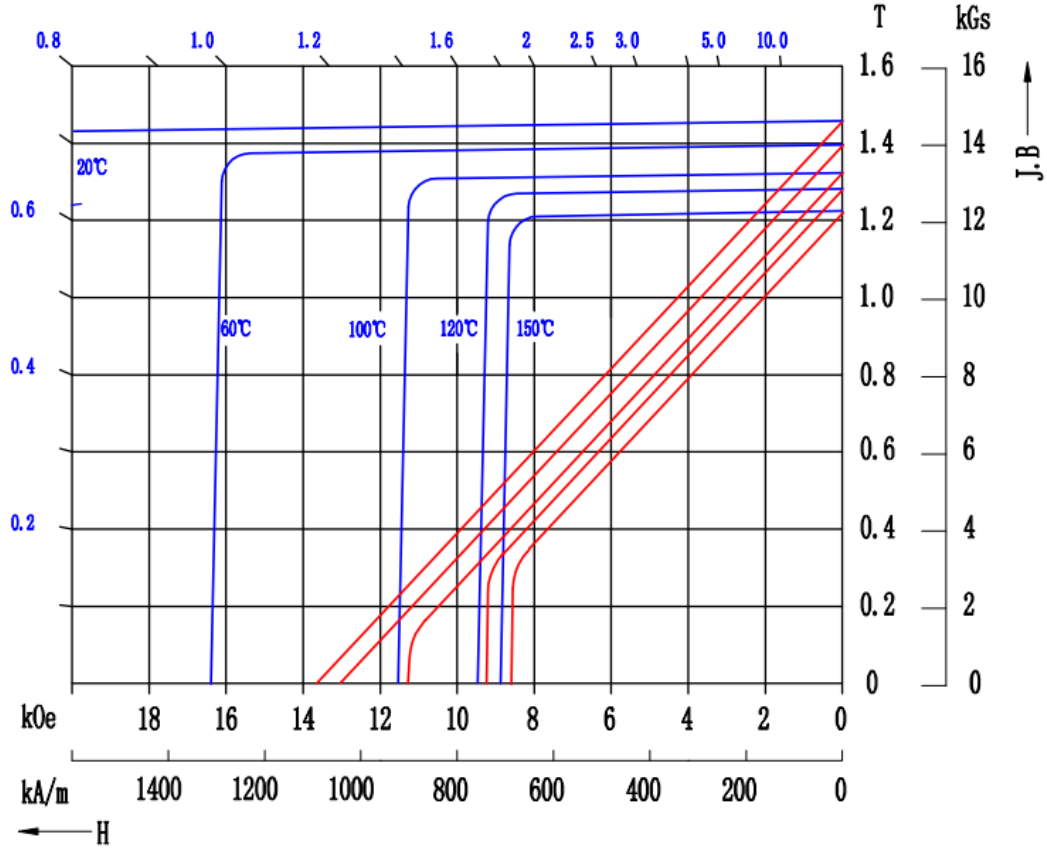




DEMAGNETIZATION CURVES/MAGNETIC CHARACTERISTICS

G52SH

DEMAGNETIZATION CURVE



MAGNETIC CHARACTERISTICS

Remanent flux density	[T]	1.42~1.47
B_r	(kGs)	14.2~14.7
Coercivity	[kA/m]	≥ 1035
H_{cB}	(kOe)	≥ 13
Intrinsic Coercivity	[kA/m]	≥ 1592
H_{cJ}	(kOe)	≥ 20
Maximum energy product	[kJ/m ³]	390~422
$(BH)_{max}$	(MGOe)	49~53
Temperature Coefficient	α_{Br} [%/°C]	-0.12
(RT - 100 °C)	α_{Hcj} [%/°C]	-0.61
Temperature Coefficient	α_{Br} [%/°C]	-0.13
(RT - 150 °C)	α_{Hcj} [%/°C]	-0.55
Maximum operating temp. *	°C	150
Relative recoil permeability	μ_{rec}	1.05

*[]: in the unit of SI

(): in the unit of CGS

*: The specification of the test sample is $\phi 10 \times 7$ column

PHYSICAL PROPERTIES

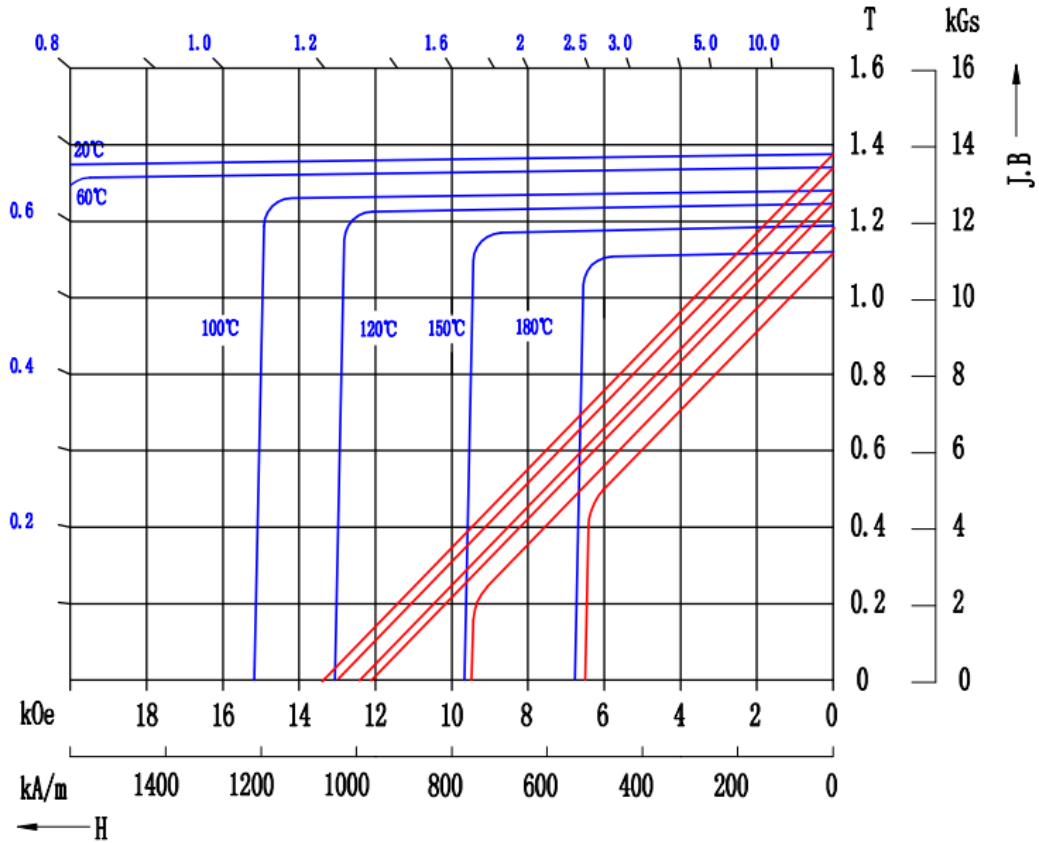
Density	g/cm ³	7.6
ρ		
Curie Temperature	°C	330
T_c		
Bending Strength	MPa	250~450
Compressive Strength	MPa	700~1200
Electrical Resistivity	$\Omega \cdot \text{mm}^2/\text{m}$	1.25
Vickers Hardness	Hv	500~700
Thermal Expansion	$// (\times 10^{-6}/\text{K})$	6
Coefficient (100°C)	$\perp (\times 10^{-6}/\text{K})$	-1



DEMAGNETIZATION CURVES/MAGNETIC CHARACTERISTICS

G48UH

DEMAGNETIZATION CURVE



MAGNETIC CHARACTERISTICS

Remanent flux density	[T]	1.37~1.42
B_r	(kG)	13.7~14.2
Coercivity	[kA/m]	≥ 1035
H_{cB}	(kOe)	≥ 13
Intrinsic Coercivity	[kA/m]	≥ 1990
H_{cJ}	(kOe)	≥ 25
Maximum energy product	[kJ/m ³]	358~390
$(BH)_{max}$	(MGOe)	45~49
Temperature Coefficient	α_{Br} [%/°C]	-0.115
(RT - 100 °C)	α_{HcJ} [%/°C]	-0.56
Temperature Coefficient	α_{Br} [%/°C]	-0.135
(RT - 180 °C)	α_{HcJ} [%/°C]	-0.48
Maximum operating temp. *	°C	180
Relative recoil permeability	μ_{rec}	1.05

*[]: in the unit of SI

(): in the unit of CGS

*: The specification of the test sample is $\phi 10 \times 7$ column

PHYSICAL PROPERTIES

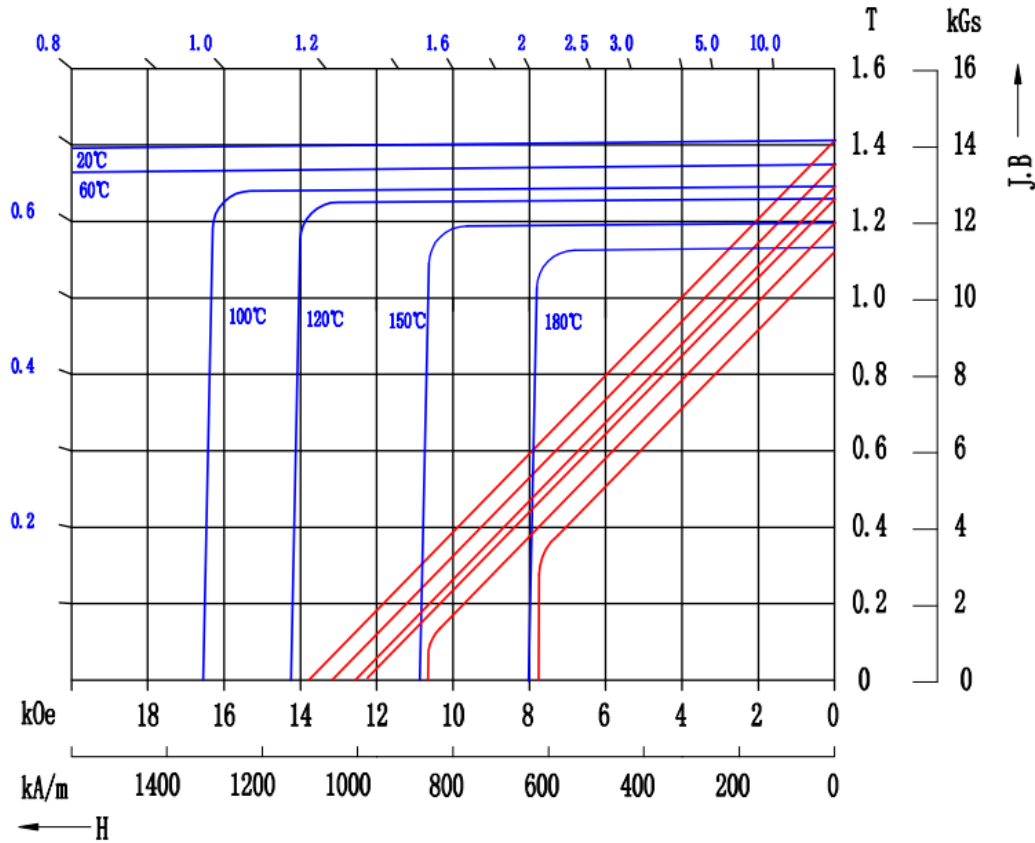
Density	g/cm ³	7.6
ρ		
Curie Temperature	°C	330
T_c		
Bending Strength	MPa	250~450
Compressive Strength	MPa	700~1200
Electrical Resistivity	$\Omega \cdot \text{mm}$	1.25
Vickers Hardness	Hv	500~700
Thermal Expansion	$//(\times 10^{-6}/K)$	6
Coefficient (100°C)	$\perp(\times 10^{-6}/K)$	-1



DEMAGNETIZATION CURVES/MAGNETIC CHARACTERISTICS

G50UH

DEMAGNETIZATION CURVE



MAGNETIC CHARACTERISTICS

Remanent flux density	[T]	1.39~1.44
B_r	(kG)	13.9~14.4
Coercivity	[kA/m]	≥ 1035
H_{cB}	(kOe)	≥ 13
Intrinsic Coercivity	[kA/m]	≥ 1990
H_{cJ}	(kOe)	≥ 25
Maximum energy product	[kJ/m ³]	374~406
$(BH)_{max}$	(MGOe)	47~51
Temperature Coefficient	α_{Br} [%/°C]	-0.115
(RT - 100 °C)	α_{Hcj} [%/°C]	-0.56
Temperature Coefficient	α_{Br} [%/°C]	-0.135
(RT - 180 °C)	α_{Hcj} [%/°C]	-0.48
Maximum operating temp. *	°C	180
Relative recoil permeability	μ_{rec}	1.05

*[]: in the unit of SI

(): in the unit of CGS

*: The specification of the test sample is $\phi 10 \times 7$ column

PHYSICAL PROPERTIES

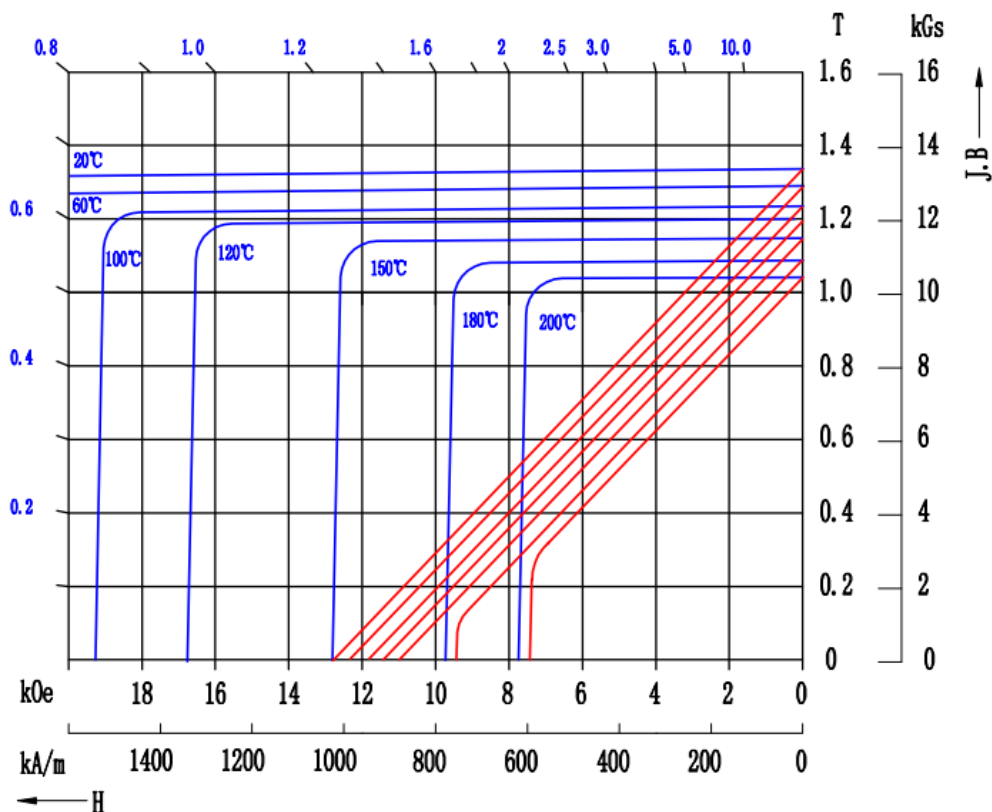
Density	g/cm ³	7.6
ρ		
Curie Temperature	°C	330
T_c		
Bending Strength	MPa	250~450
Compressive Strength	MPa	700~1200
Electrical Resistivity	$\Omega \cdot \text{mm}$	1.25
Vickers Hardness	Hv	500~700
Thermal Expansion	$//(\times 10^{-6}/K)$	6
Coefficient (100°C)	$\perp(\times 10^{-6}/K)$	-1



DEMAGNETIZATION CURVES/MAGNETIC CHARACTERISTICS

G45EH

DEMAGNETIZATION CURVE



MAGNETIC CHARACTERISTICS

Remanent flux density	[T]	1.32~1.36
B_r	(kG)	13.2~13.6
Coercivity	[kA/m]	≥ 1003
H_{cB}	(kOe)	≥ 12.6
Intrinsic Coercivity	[kA/m]	≥ 2388
H_{cJ}	(kOe)	≥ 30
Maximum energy product	[kJ/m ³]	342~366
$(BH)_{max}$	(MGOe)	43~46
Temperature Coefficient	α_{Br} [%/°C]	-0.11
(RT - 100 °C)	α_{HcJ} [%/°C]	-0.55
Temperature Coefficient	α_{Br} [%/°C]	-0.135
(RT - 200 °C)	α_{HcJ} [%/°C]	-0.46
Maximum operating temp. *	°C	200
Relative recoil permeability	μ_{rec}	1.05

*[]: in the unit of SI

(): in the unit of CGS

*: The specification of the test sample is $\phi 10 \times 7$ column

PHYSICAL PROPERTIES

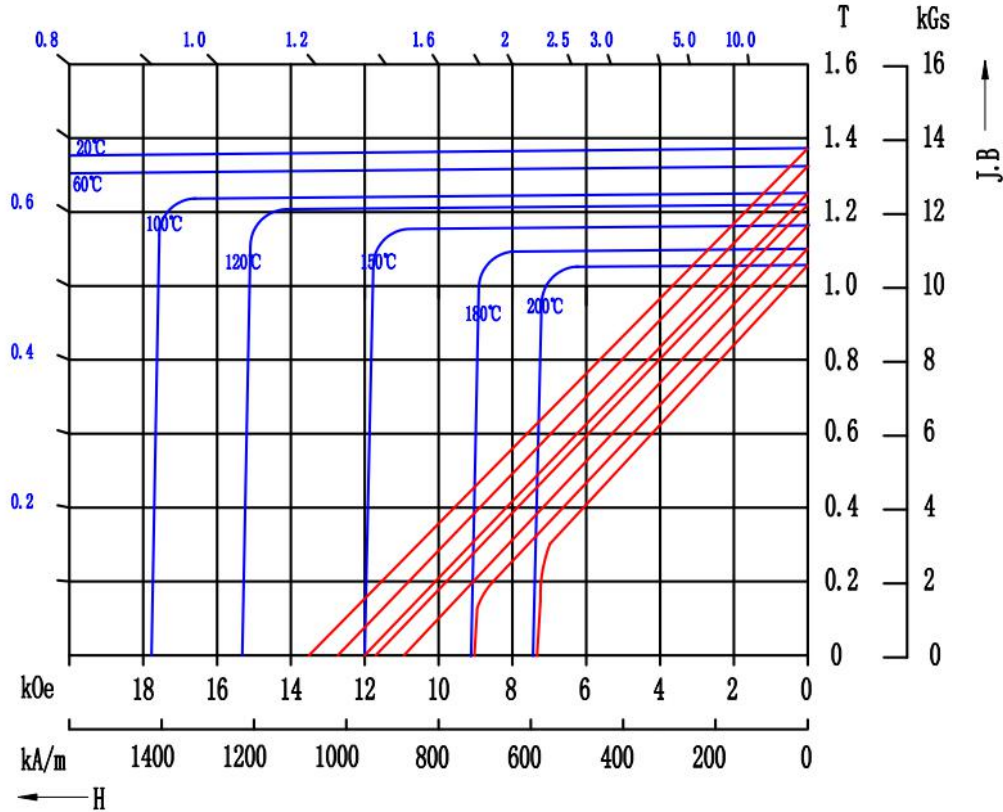
Density	g/cm ³	7.6
ρ		
Curie Temperature	°C	330
T_c		
Bending Strength	MPa	250~450
Compressive Strength	MPa	700~1200
Electrical Resistivity	$\Omega \cdot \text{mm}^2/\text{m}$	1.25
Vickers Hardness	Hv	500~700
Thermal Expansion	$// (\times 10^{-6}/\text{K})$	6
Coefficient (100°C)	$\perp (\times 10^{-6}/\text{K})$	-1



DEMAGNETIZATION CURVES/MAGNETIC CHARACTERISTICS

G48EH

DEMAGNETIZATION CURVE



MAGNETIC CHARACTERISTICS

Remanent flux density	[T]	1.37~1.42
B_r	(kG)	13.7~14.2
Coercivity	[kA/m]	≥ 1035
H_{cB}	(kOe)	≥ 13
Intrinsic Coercivity	[kA/m]	≥ 2308
H_{cJ}	(kOe)	≥ 29
Maximum energy product	[kJ/m ³]	358~390
$(BH)_{max}$	(MGOe)	45~49
Temperature Coefficient	α_{Br} [%/°C]	-0.11
(RT - 100°C)	α_{HcJ} [%/°C]	-0.55
Temperature Coefficient	α_{Br} [%/°C]	-0.135
(RT - 200°C)	α_{HcJ} [%/°C]	-0.46
Maximum operating temp. *	°C	200
Relative recoil permeability	μ_{rec}	1.05

*[]: in the unit of SI

(): in the unit of CGS

*: The specification of the test sample is $\phi 10 \times 7$ column

PHYSICAL PROPERTIES

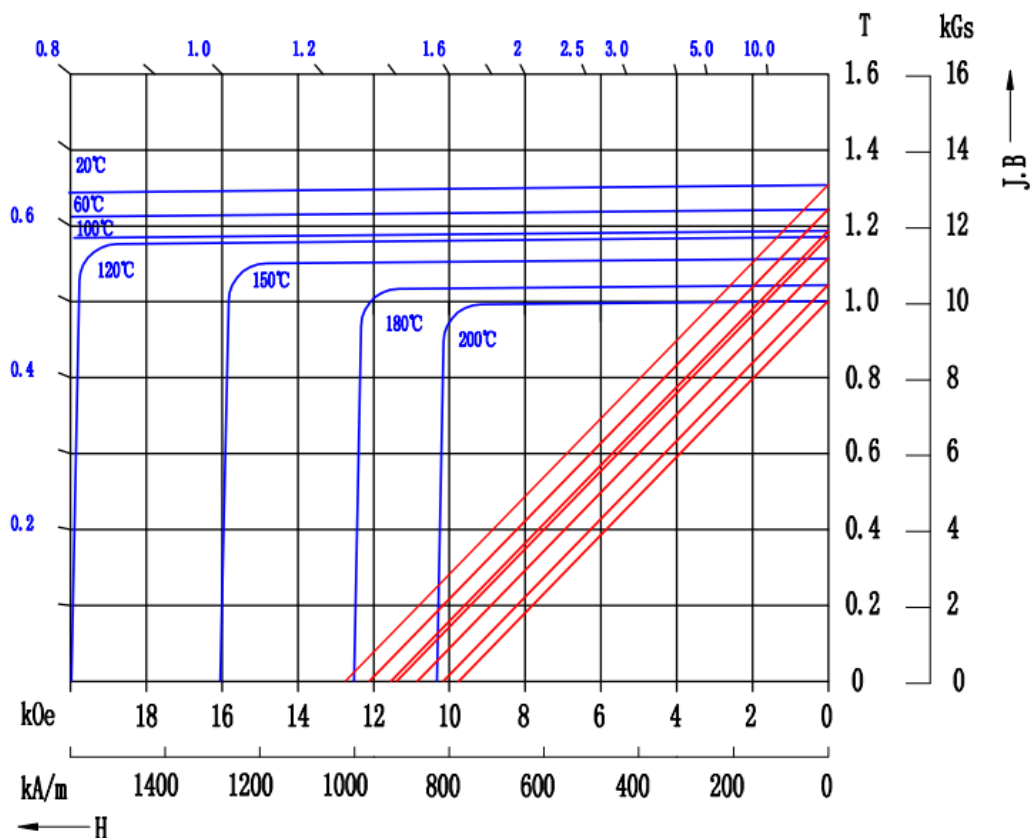
Density	g/cm ³	7.6
ρ		
Curie Temperature	°C	330
T_c		
Bending Strength	MPa	250~450
Compressive Strength	MPa	700~1200
Electrical Resistivity	$\Omega \cdot \text{mm}^2/\text{m}$	1.25
Vickers Hardness	Hv	500~700
Thermal Expansion	$// (\times 10^{-6}/\text{K})$	6
Coefficient (100°C)	$\perp (\times 10^{-6}/\text{K})$	-1



DEMAGNETIZATION CURVES/MAGNETIC CHARACTERISTICS

G42AH

DEMAGNETIZATION CURVE



MAGNETIC CHARACTERISTICS

Remanent flux density	[T]	1.28~1.32
B_r	(kG)	12.8~13.2
Coercivity	[kA/m]	≥ 971
H_{cB}	(kOe)	≥ 12.2
Intrinsic Coercivity	[kA/m]	≥ 2786
H_{cJ}	(kOe)	≥ 35
Maximum energy product	[kJ/m ³]	318~342
$(BH)_{max}$	(MGOe)	40~43
Temperature Coefficient	α_{Br} [%/°C]	-0.10
(RT - 100 °C)	α_{Hcj} [%/°C]	-0.51
Temperature Coefficient	α_{Br} [%/°C]	-0.125
(RT - 200 °C)	α_{Hcj} [%/°C]	-0.43
Maximum operating temp. *	°C	240
Relative recoil permeability	μ_{rec}	1.05

*[]: in the unit of SI

(): in the unit of CGS

*: The specification of the test sample is $\phi 10 \times 7$ column

PHYSICAL PROPERTIES

Density	g/cm ³	7.6
ρ		
Curie Temperature	°C	330
T_c		
Bending Strength	MPa	250~450
Compressive Strength	MPa	700~1200
Electrical Resistivity	$\Omega \cdot \text{mm}$	1.25
Vickers Hardness	Hv	500~700
Thermal Expansion	$//(\times 10^{-6}/K)$	6
Coefficient (100°C)	$\perp(\times 10^{-6}/K)$	-1