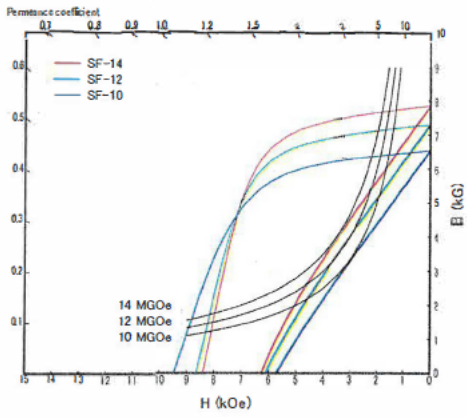
SmFeN Bonded Magnet

■Magnetic Properties

Item			SF-10	SF-12	SF-14
Residual Induction		mT (kG)	630～650 (6.3～6.5)	700～750 (7.0～7.5)	760～810 (7.6～8.1)
Coercive Force	HcB	kA/m (kOe)	435～485 (5.5～6.1)	460～510 (5.8～6.4)	485～535 (6.1～6.7)
	HcJ	kA/m (kOe)	715～805 (9.0～10.1)	690～780 (8.7～9.8)	660～755 (8.3～9.5)
Maximum Energy Product		kJ/m^3 (MGOe)	76～84 (9.5～10.5)	92～99 (11.5～12.5)	107～115 (13.5～14.5)
Saturasion Magnetizing Force		kA/m (kOe)	≧2000 (≧25)	≧2000 (≧25)	≧2000 (≧25)
Recoil Permeability		μ rec	1.1	1.1	1.1
Temp. Coefficient of Br		%/K	−0.07	−0.07	−0.07
Temp. Coefficient of HcJ		%/K	−0.50	−0.50	−0.50
Density		Mg/m^3	4.1～4.3	4.4～4.6	4.7～4.9
Molding Method			Injection	Injection	Injection

The above figures are subject to change depending on magnet shape , dimension and magnetic orientation.

■Demagnetization Curves



■Physical and Mechanical Properties

Item		Properties
Tensile Strength	MPa	34.8
Flexural Strength	MPa	50.7
Modulous of Elasticity	MPa	10400
Linear Thermal Expansion Coefficient		5.85 × 10^5
Electric Resistivity	Ω・m	0.015