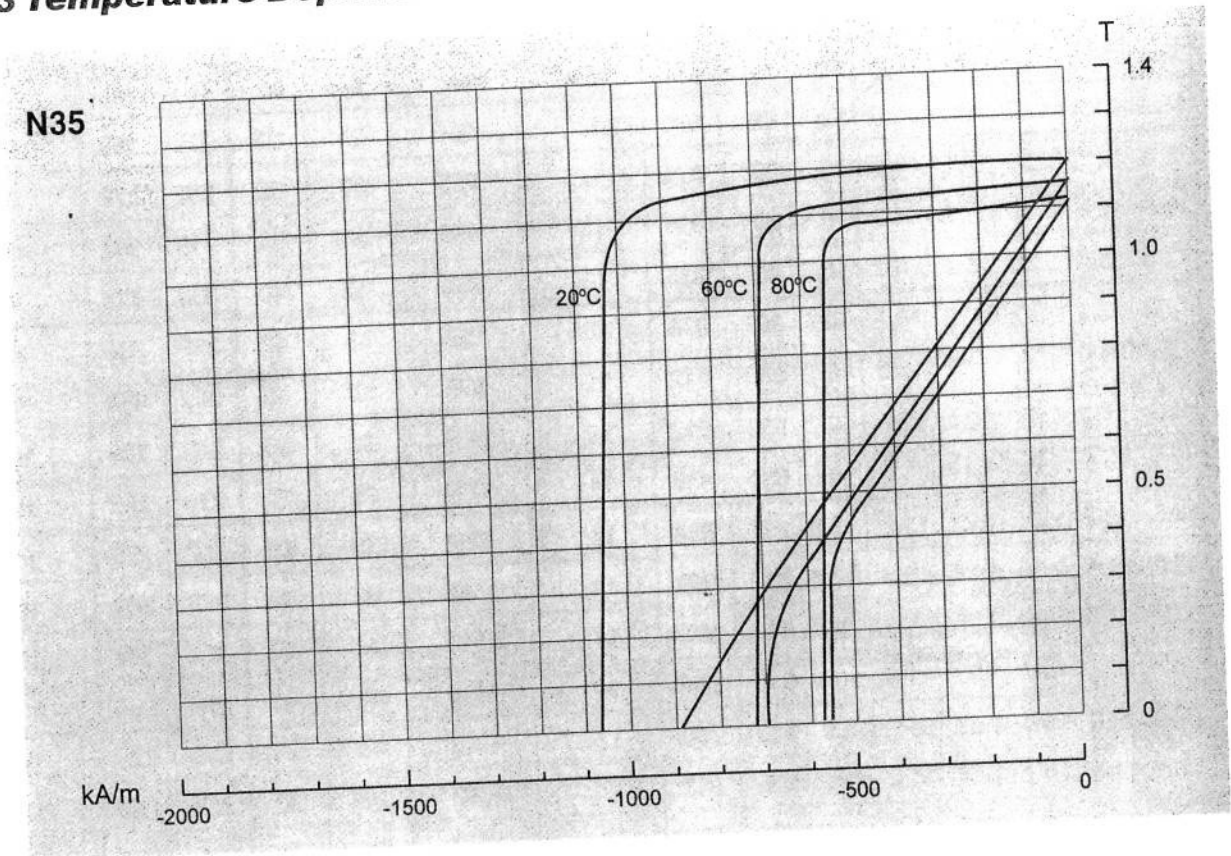


### 1.1-3 Temperature Dependence of Demagnetization Curves



### 1.1-2 Characteristic magnetic properties at room temperature (20°C)

Material Code	Remanence Br				Coercivity Hcb				Intrinsic Coercivity Hcj		Max. Energy Product				Max. Working Temp. °C (L/D=0.7)
	kGs		T		kOe		kA/m		kOe	kA/m	MGOe		kJ/m³		
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Min	Min	Min	Typ.	Min	Typ.	Min	
N35	12.2	11.7	1.22	1.17	11.2	10.5	891	836	12	955	35	33	279	263	80

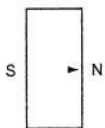
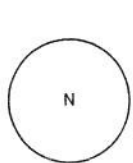
### 1.1-4 Physical properties at room temperature (20°C)

Temp. Coeff. of Br:	-0.11%/°C (20-100°C)	Temp. Coeff. of $\mu$ Hc:	-0.60%/°C (20-100°C)
Density:	7.4-7.6g/cm <sup>3</sup>	Electrical resistivity:	144 $\mu \Omega \cdot \text{cm}$
Vickers Hardness:	570Hv	Flexural Strength:	25kg/mm
Tensile strength:	8.0kg/mm <sup>2</sup>	Coeff. of Thermal Expansion:	4 x 10 <sup>-6</sup> /°C
Specific Heat:	0.12kCal/(kg.°C)	Thermal Conductivity:	7.7kcal/(m.h.°C)
Young's Modulus:	1.6 x 10 <sup>11</sup> N/m <sup>2</sup>	Rigidity:	0.64N/m <sup>2</sup>
Poisson's Ratio:	0.24	Compressibility:	9.8 x 10 <sup>-12</sup> m <sup>2</sup> /N
Curie Temperature:	310-340°C		

### 1.1-5 Surface Protection and coatings

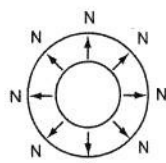
Surface	Type	Minimal layer thickness	Surface color	Remarks
Passivation		$\leq 1 \mu$	Silver grey	Temporary Protection
Nickel coating	Ni+Ni	10-20 $\mu$	Silver semibright	Excellent resistance to humid atmosphere
	Ni+Cu+Ni			Superior resistance to humid atmosphere
Zinc coating	Zn	8-20 $\mu$	Blue whiteshining Colour shining	Good resistance to salt spray
	C-Zn			Excellent resistance to salt spray
Tin coating	Ni+Cu+Sn	15-20 $\mu$	Silver semibright	Superior resistance to humid atmosphere
Gold coating	Ni+Cu+Au	10-20 $\mu$	Gold shining	Superior resistance to humid atmosphere
Copper coating	Ni+Cu	10-20 $\mu$	Gold shining	Temporary treatment
Epoxy	Ni+Cu+Epoxy	15-25 $\mu$	Black	Excellent climatic and salt spray resistance
	Zn+Epoxy			
Chemical Coating	Ni	10-20 $\mu$	Silver semibright	Excellent resistance to humid atmosphere

### 1.1-6 Types of Magnetization

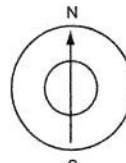


axial

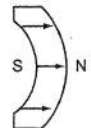
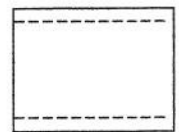
(also multi-poles)



radial



diametral



diametral

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