

Material Characteristics

Stable Permeability Material for Temp. Change

Material			ST-30B	
Initial permeability	μ_{iac}			3000 \pm 25%
Relative loss factor	$\tan\delta/\mu_{iac}$	$\times 10^{-6}$	f:100kHz	< 3.0
Saturation flux density (1194A/m)	Bs	mT	25°C	530
			100°C	420
			25°C	100
Remanence	Br	mT	25°C	12
Coercivity	Hc	A/m	25°C	380
Core loss (100kHz, 200mT)	Pcv	kW/m ³	25°C	500
			40°C	650
			60°C	650
Relative temp. factor	$\alpha\mu r$	$\times 10^{-6}/^{\circ}\text{C}$	-20~20°C	-1.0~1.0
			20~60°C	-1.0~1.0
			60~100°C	-1.0~1.0
Hysterisis material constant	η_B	$\times 10^{-6}/\text{mT}$	10kHz, 25°C	< 0.3
Curie temperature	Tc	°C		> 240
Density	d	kg/m ³		4.80×10^3
Resistivity	ρ	$\Omega \cdot \text{m}$	25°C	> 5

Note : 1) Typical values

2) The values were obtained with toroidal cores(30X8-20H) at room temperature unless indicated otherwise

