

N650

Material characteristics

Initial permeability: $650 \pm 25\%$

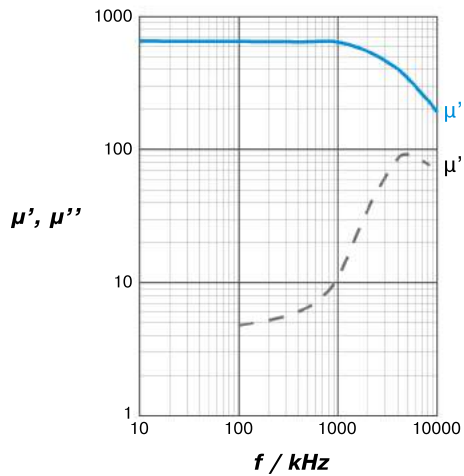
	symbol	at	value	unit
Initial permeability	μ_i		$650 \pm 25\%$	
Flux density	B_s	10 kHz, 25 °C	350	mT (1600A/m)
		100 kHz, 25 °C	330	
Remanence	B_r	10 kHz, 25 °C	150	mT
Coercive force	H_c	10 kHz, 25 °C	35	A/m
Relative loss factor	$\tan\delta / \mu_j$	10 kHz	20	$\times 10^{-6}$
Curie temperature	T_c	10 kHz	>140	°C
Resistivity	ρ	DC, 25 °C	> 10^5	Ωm
Density	γ		4.9	g/cm^3

Preferred core shapes

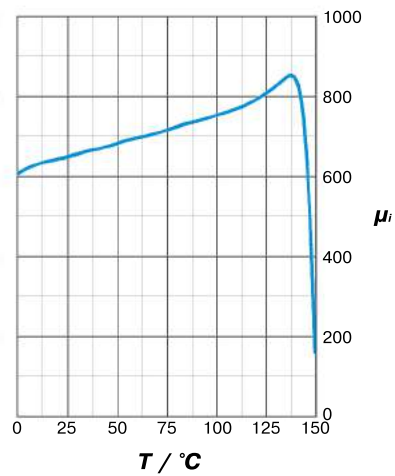
- rings
- tubes
- rods
- disks

Material curves

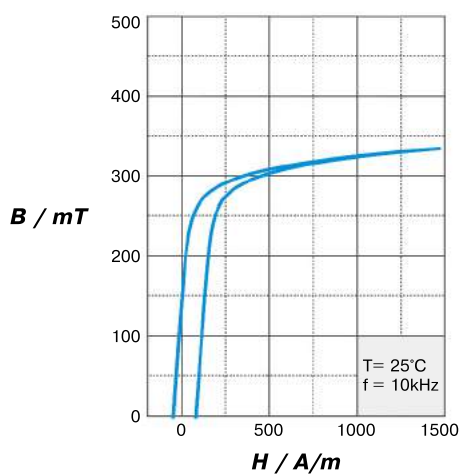
Complex permeability vs. frequency



Initial permeability vs. temperature



Hysteresis curve



Flux density vs. temperature

