

# N850

## Material characteristics

Initial permeability:  $850 \pm 25\%$

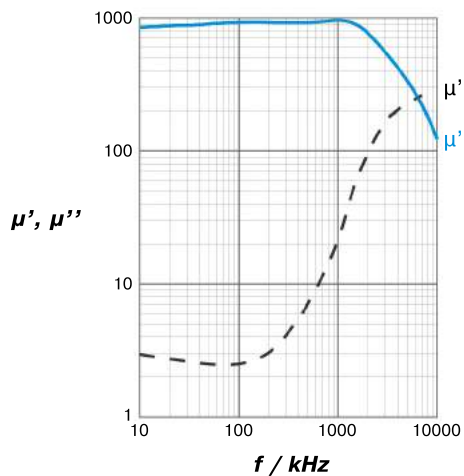
	symbol	at	value	unit
Initial permeability	$\mu_i$		$850 \pm 25\%$	
Flux density	$B_s$	10 kHz, 25 °C	350	mT (1600A/m)
		100 kHz, 25 °C	330	
Remanence	$B_r$	10 kHz, 25 °C	200	mT
Coercive force	$H_c$	10 kHz, 25 °C	20	A/m
Relative loss factor	$\tan\delta / \mu_j$	10 kHz	16	$\times 10^{-6}$
Curie temperature	$T_c$	10 kHz	>120	°C
Resistivity	$\rho$	DC, 25 °C	> $10^5$	$\Omega\text{m}$
Density	$\gamma$		4.8	$\text{g/cm}^3$

## Preferred core shapes

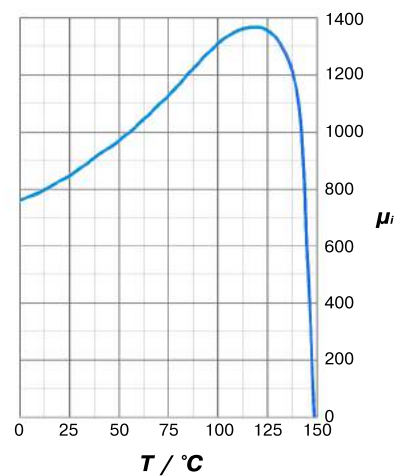
- rings
- tubes
- rods
- disks
- split cores

## Material curves

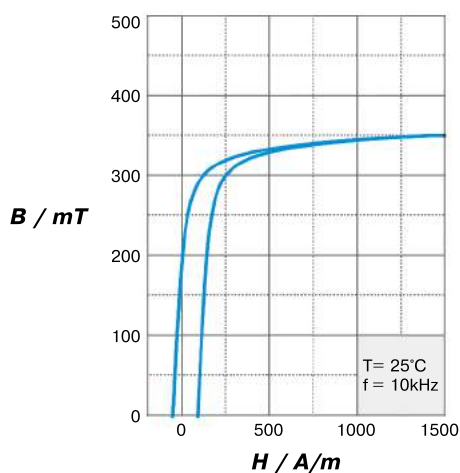
Complex permeability vs. frequency



Initial permeability vs. temperature



Hysteresis curve



Impedance vs. frequency

