

	Symbol	Unit	Measuring Conditions			High Frequency Low Loss Material P51
			Freq.	Flux den.	Temp.	
Initial Permeability	μ_i		$\leq 10\text{kHz}$	0.25mT	25°C	1500 $\pm$ 25%
Amplitude Permeability	μ_a		25kHz	200mT	25°C	> 2500
					100°C	> 2500
Power Loss	Pv	KW/m ³	300kHz	100mT	25°C	410
					100°C	370
			500kHz	50mT	25°C	200
					100°C	100
			700kHz	50mT	25°C	300
					100°C	250
			1000kHz	50mT	25°C	600
					100°C	600
Saturation Flux Density	Bs	mT	10kHz	H = 1200A/m	25°C	490
Remanence	Br	mT	10kHz	H = 1200A/m	25°C	215
					100°C	125
Coercivity	Hc	A/m	10kHz	H = 1200A/m	25°C	35
					100°C	27
Hysteresis Material Constant	η_B	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 1
Disaccommodation Factor	Df	10 ⁻⁶	10kHz	< 0.25 mT	25°C	< 2
Curie Temperature	Tc	°C				≥ 250
Resistivity	ρ	Ωm				12.00
Density	d	g/cm ³				4.85

Note: Material characteristics are typical for a toroid core.

Product specification will differ from these data due to the influence of geometry and size.

