

	Symbol	Unit	Measuring Conditions			Wide Temperature Low Loss Material P45
			Freq.	Flux den.	Temp.	
Initial Permeability	μ_i		$\leq 10\text{kHz}$	0.25mT	25°C	3100 $\pm$ 25%
Amplitude Permeability	μ_a		25kHz	200mT	25°C	> 5000
					100°C	> 5000
Power Loss	Pv	KW/m ³	100kHz	200mT	25°C	360
					100°C	260
			300kHz	100mT	25°C	400
					100°C	350
			500kHz	50mT	25°C	200
					100°C	200
Saturation Flux Density	Bs	mT	10kHz	H = 1200A/m	25°C	530
Remanence	Br	mT	10kHz	H = 1200A/m	25°C	80
					100°C	50
Coercivity	Hc	A/m	10kHz	H = 1200A/m	25°C	8
					100°C	5
Hysteresis Material Constant	η_B	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 0.6
Disaccommodation Factor	Df	10 ⁻⁶	10kHz	< 0.25 mT	25°C	< 1
Curie Temperature	Tc	°C				≥ 215
Resistivity	ρ	Ωm				5.00
Density	d	g/cm ³				4.90

Note: Material characteristics are typical for a toroid core.

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

