



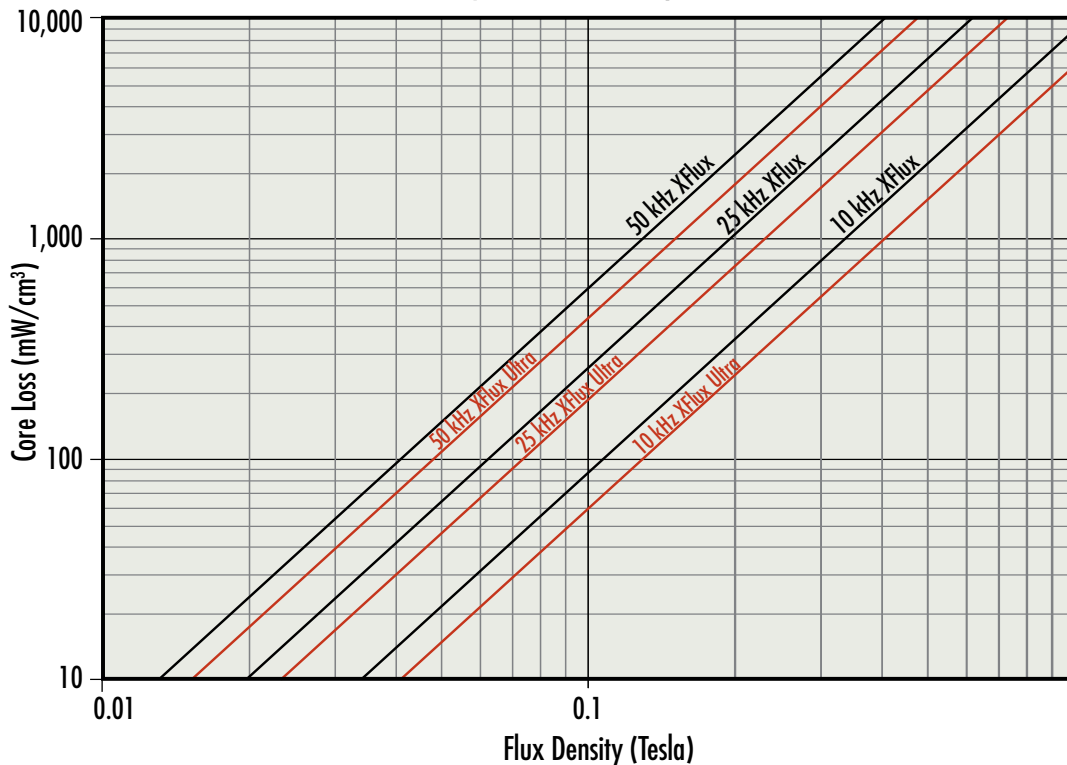
XFLUX[®] Ultra Powder Cores



Magnetics' XFLUX[®] Ultra powder cores offer the same high saturation found in standard silicon-iron XFLux while providing a 20% improvement in core loss. Applications include high efficiency Uninterruptible Power Supplies (UPS), high power SMPS, and Power Factor Correction (PFC) for On-Board Chargers (OBC).

Currently available in 26 μ and 60 μ toroids.

26 μ Core Loss Density

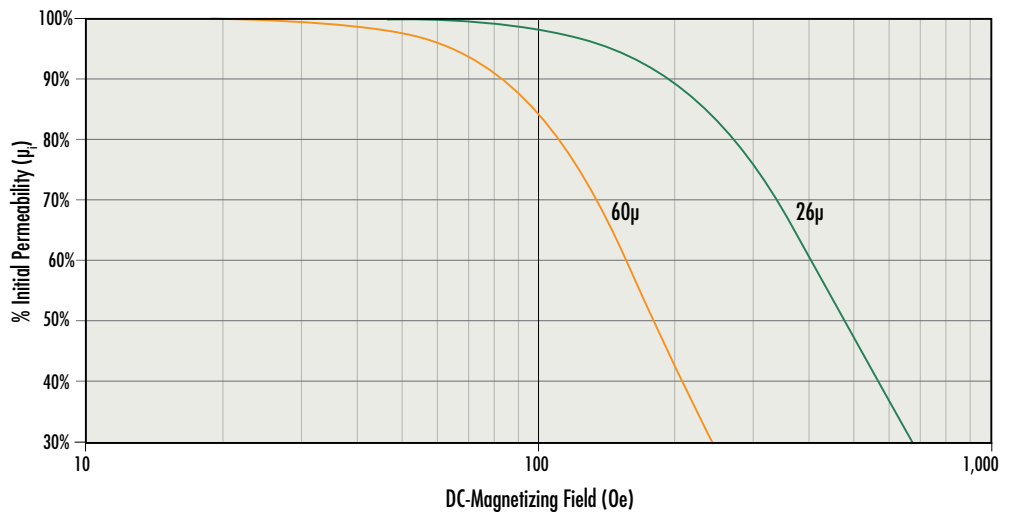


26 μ	Perm vs. DC Bias (Oer)		Core Loss (mW/cm ³)
	80%	50%	W _{100 mT, 50 kHz}
XFLUX[®] Ultra	270	475	475
XFLux [®]	270	450	600

60 μ	Perm vs. DC Bias (Oer)		Core Loss (mW/cm ³)
	80%	50%	W _{100 mT, 50 kHz}
XFLUX[®] Ultra	110	180	450
XFLux [®]	100	170	575

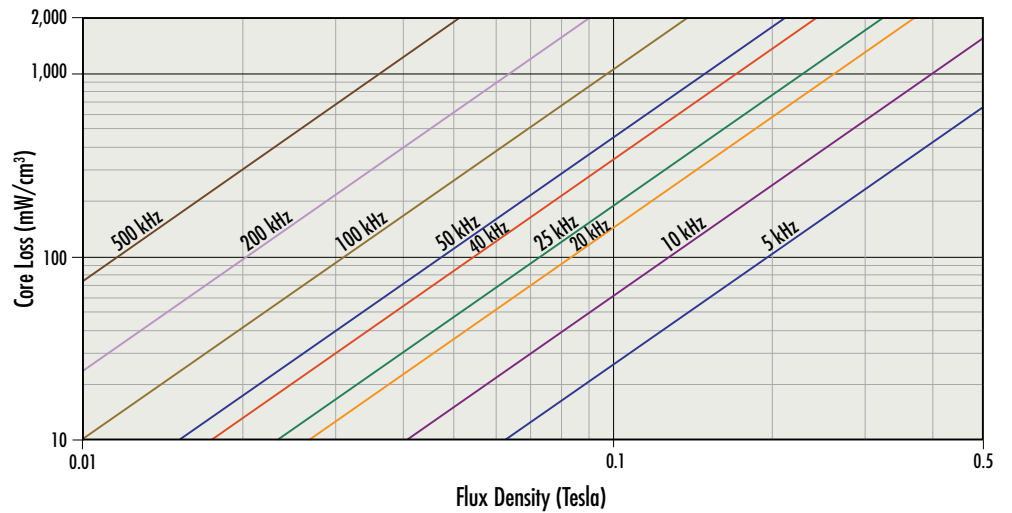
Permeability vs. DC Bias

$\frac{\mu}{\mu_i} \times 100 = \frac{1}{(a + bH^c)}$			
	a	b	c
26 μ	0.01	2.699E-09	2.454
60 μ	0.01	4.483E-09	2.815



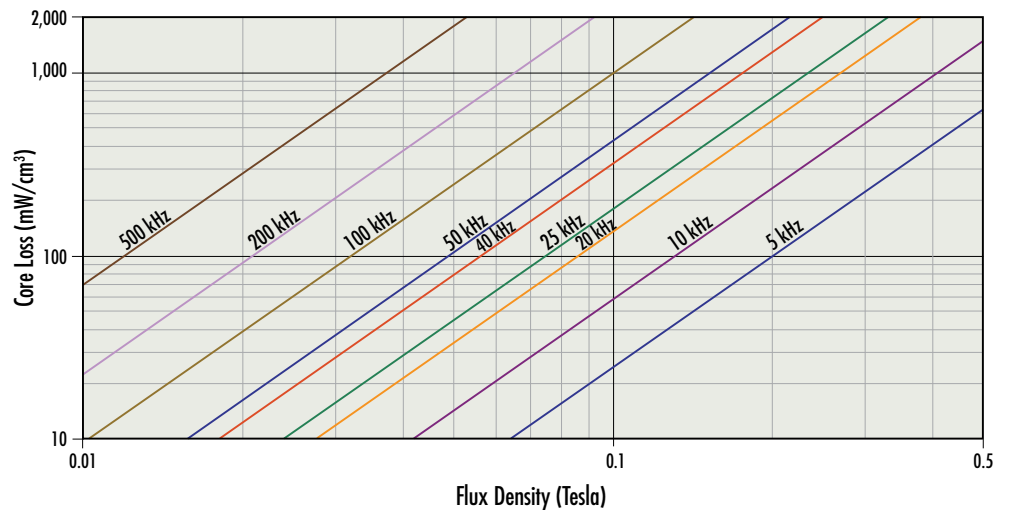
Core Loss Density 26 μ

$P = a(B^b)(f^c)$			
	a	b	c
26 μ	363.07	2.015	1.236



Core Loss Density 60 μ

$P = a(B^b)(f^c)$			
	a	b	c
60 μ	348.97	2.015	1.236



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