



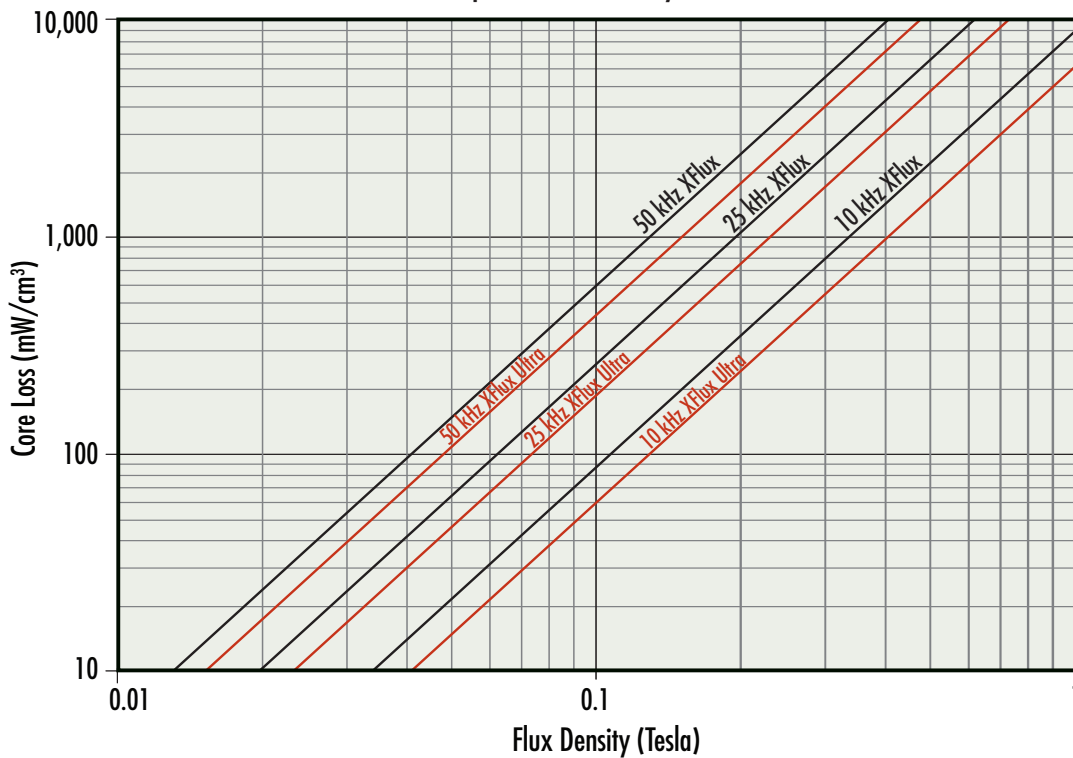
# XFlux<sup>®</sup> Ultra Powder Cores



Magnetics' XFlux<sup>®</sup> 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 $\mu$  and 60 $\mu$  toroids.

26 $\mu$  Core Loss Density

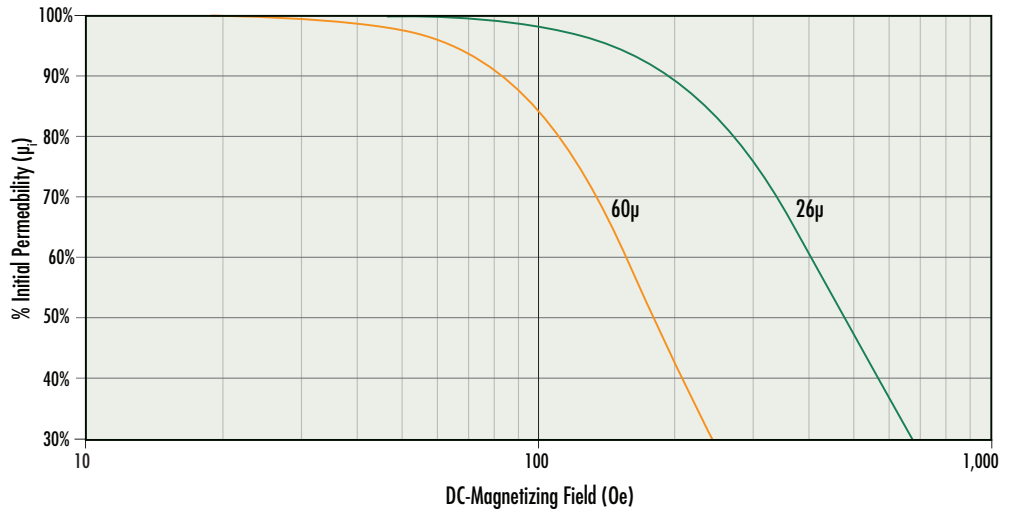


26 $\mu$	Perm vs. DC Bias (Oer)		Core Loss (mW/cm <sup>3</sup> ) W <sub>100 mT, 50 kHz</sub>
	80%	50%	
XFlux <sup>®</sup> Ultra	270	475	475
XFlux <sup>®</sup>	270	450	600

60 $\mu$	Perm vs. DC Bias (Oer)		Core Loss (mW/cm <sup>3</sup> ) W <sub>100 mT, 50 kHz</sub>
	80%	50%	
XFlux <sup>®</sup> Ultra	110	180	450
XFlux <sup>®</sup>	100	170	575

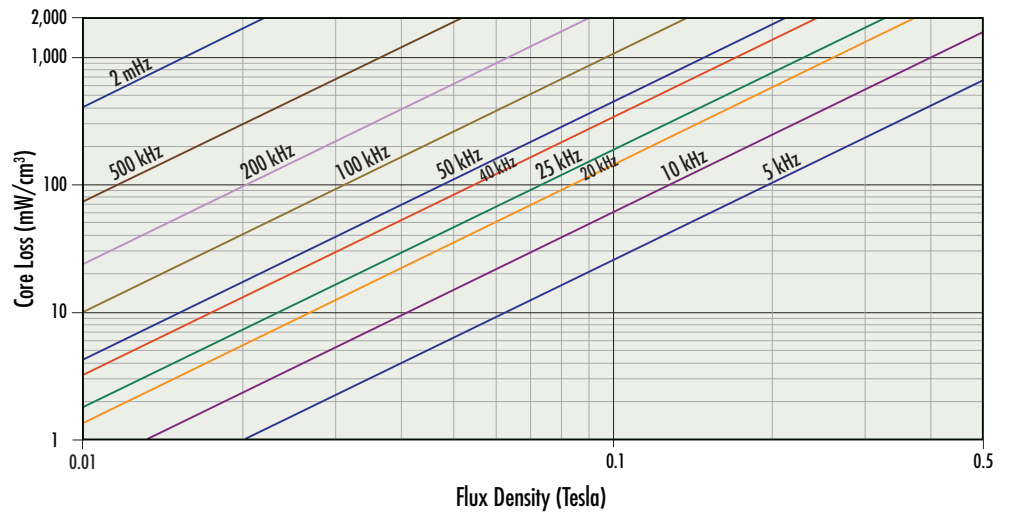
## Permeability vs. DC Bias

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



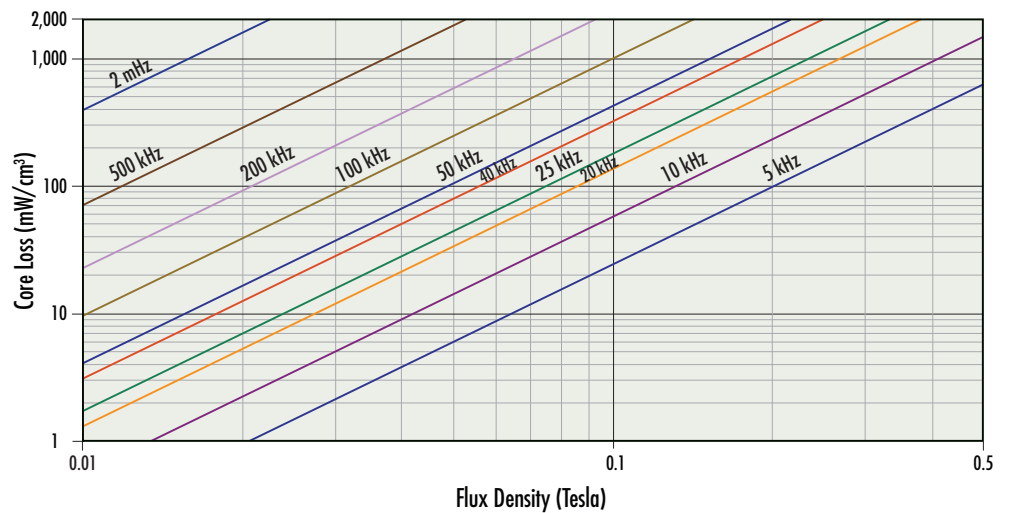
## Core Loss Density 26 $\mu$

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



## Core Loss Density 60 $\mu$

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



### HEADQUARTERS

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