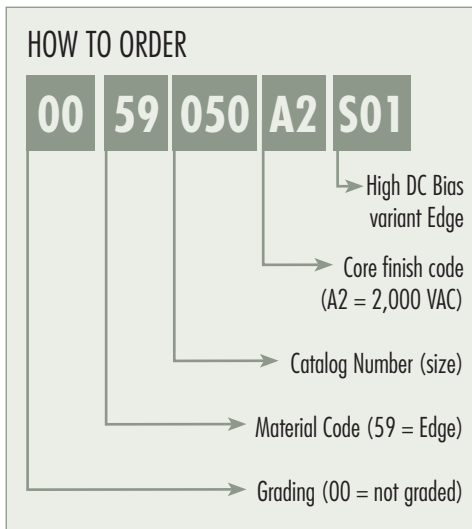
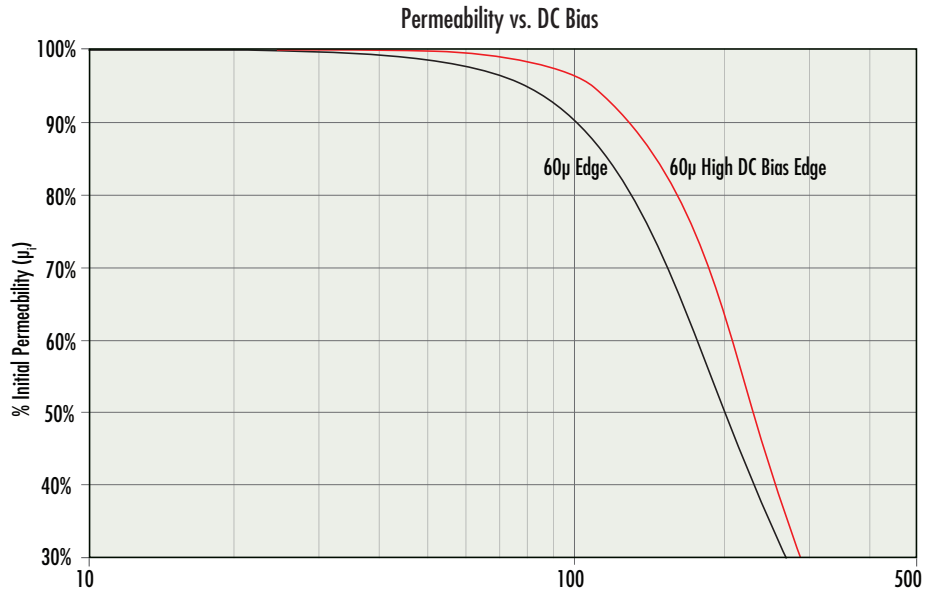




High DC Bias Edge[®] Cores

Designed for cutting edge performance, High DC Bias Edge cores offer the highest efficiency and best DC bias performance of all alloy powder cores.

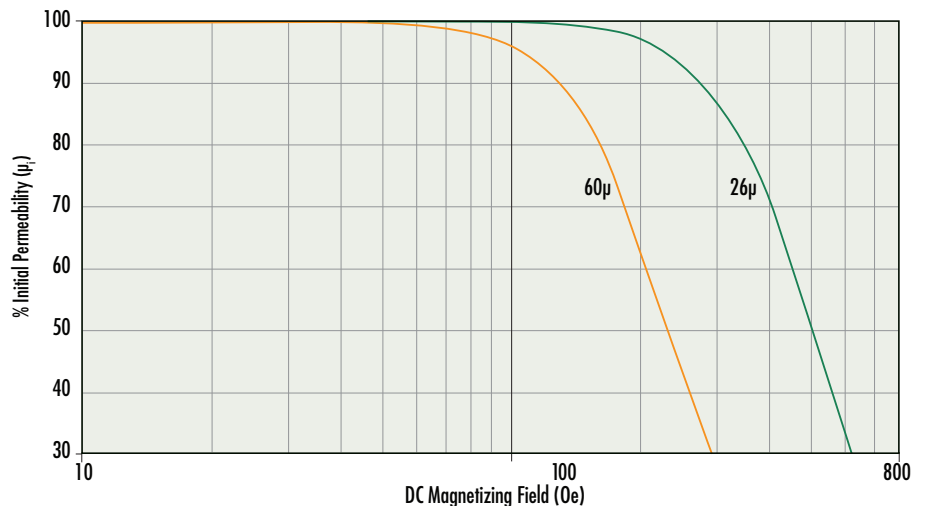
High DC Bias Edge cores provide up to 20% improvement in DC bias compared to standard nickel-iron Edge powder cores.



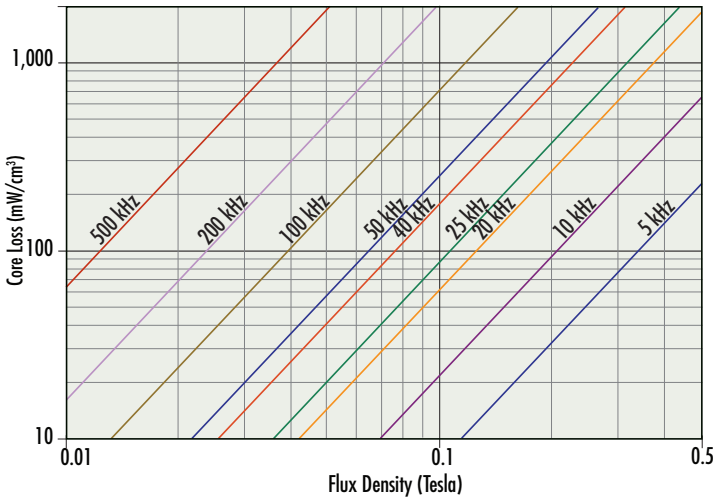
Material	Perm vs. DC Bias (Oe)		Core Loss (mW/cm ³) <small>W_{1000 G, 50 kHz}</small>
	80%	50%	
26µ High DCB Edge	350	500	275
26µ Edge	285	440	200
60µ High DCB Edge	160	230	200
60µ Edge	130	205	150

$$\% \text{ Initial Permeability} = \frac{1}{a + bH^c}$$

Perm	a	b	c
26	0.01	3.23E-13	3.887
60	0.01	9.51E-12	3.820



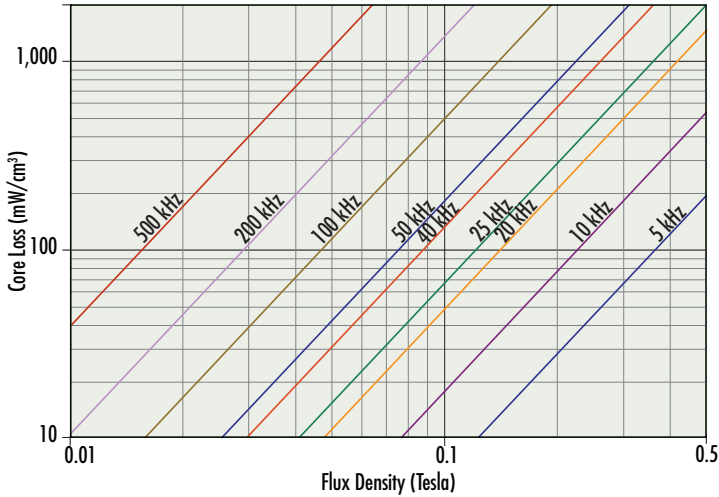
Core Loss Density 26μ



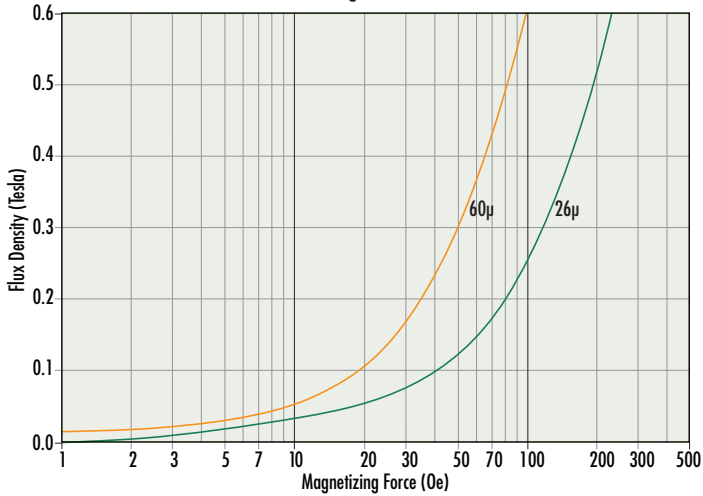
Core Loss Density $P = a(B^b)(f^c)$

Perm	a	b	c
26μ	83.23	2.106	1.520
60μ	82.64	2.106	1.444

Core Loss Density 60μ



DC Magnetization



$$B = \left[\frac{a + bH + cH^2}{1 + dH + eH^2} \right]^x \quad \text{where } B = \text{Tesla (T)}, H = \text{Oersteds (Oe)}$$

Perm	a	b	c	d	e	x
26μ	9.900E-02	4.600E-01	6.100E-03	8.940E-01	5.070E-03	4.970
60μ	4.907E-02	1.000E-02	2.703E-04	2.943E-02	1.342E-04	1.457



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