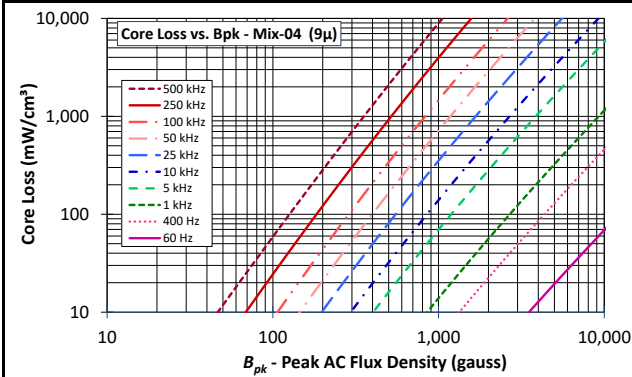




Mix:	-04
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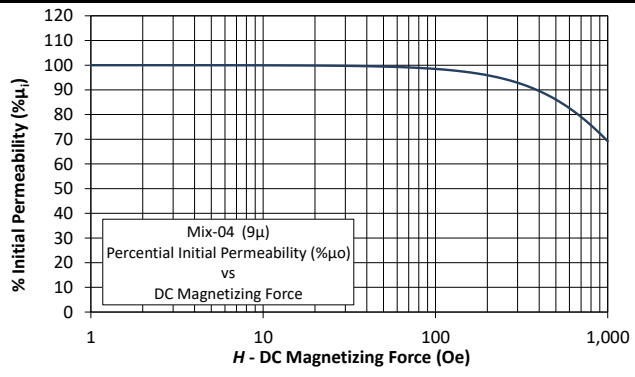
Revision 20190524 - Generated 2019-May-24

μ_i (reference)	9
Typical AL tolerance	$\pm 5\%$
Color Code	Blue/White
Density	5.0 g/cm ³
Bsat	14.8kG
Core Loss (100kHz, 140g)	19 mW/cm ³ (nom) 22 mW/cm ³ (max)
%Perm at DC Bias (200 Oe)	95.9% (nom) 94.8% (min)



$$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$$

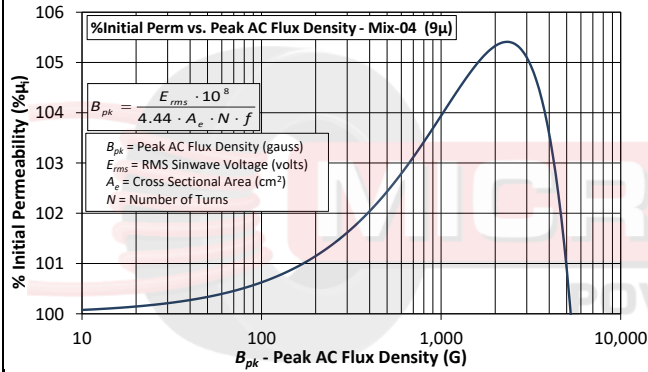
where B_{pk} expressed in gauss, f expressed in hertz, and:
 $a=4.00E+09$, $b=3.00E+08$, $c=2.70E+06$, $d=8.00E-15$



$$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$$

where H expressed in oersteds, and:

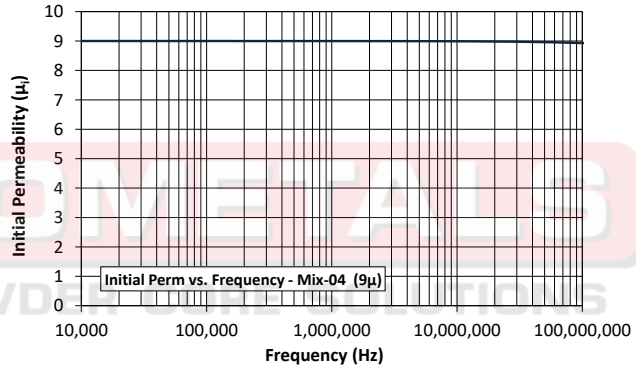
$a=1.00E-02$, $b=1.83E-07$, $c=1.46$, $d=0.00$



$$\% \mu_i = \frac{1}{a + bB_{pk}^c + \frac{1}{dB_{pk}^e} + \frac{1}{f}}$$

where B_{pk} expressed in gauss, and:

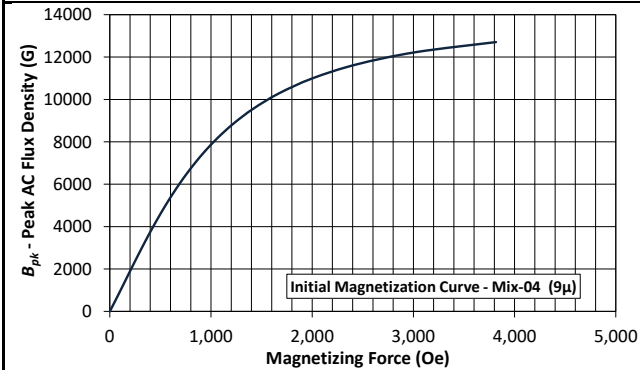
$a=1.57E+03$, $b=4.50E-01$, $c=1.25E+00$, $d=1.16E+17$, $e=-3.70E+00$, $f=1.07E+02$



$$\mu_i = \frac{1}{a + bf^c} + d$$

where f expressed in hertz, and:

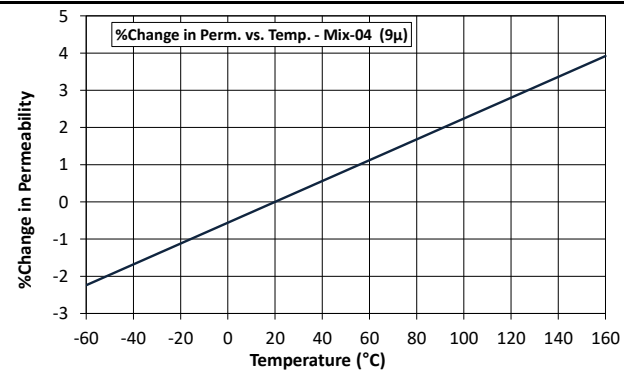
$a=1.25E-01$, $b=7.01E-11$, $c=9.00E-01$, $d=1.00E+00$



$$B_{pk} = \frac{\mu_i}{H + aH^b + \frac{1}{cH^d} + \frac{1}{e}}$$

where B_{pk} expressed in gauss, H in oested, and:

$a=1.35E-03$, $b=1.96E+00$, $c=2.19E+04$, $d=9.18E-04$, $e=1.65E+03$



$$\left(\frac{\Delta \mu_i}{\mu_i} \right) ppm = a(T - 20)$$

where T expressed in celsius, and:

$a=280$