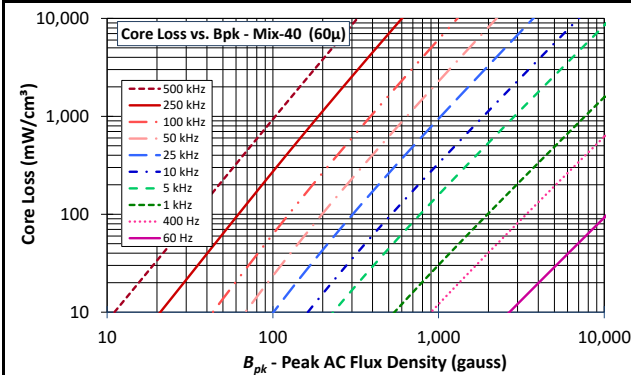




| | |
|-------------|------------|
| Mix: | -40 |
|-------------|------------|

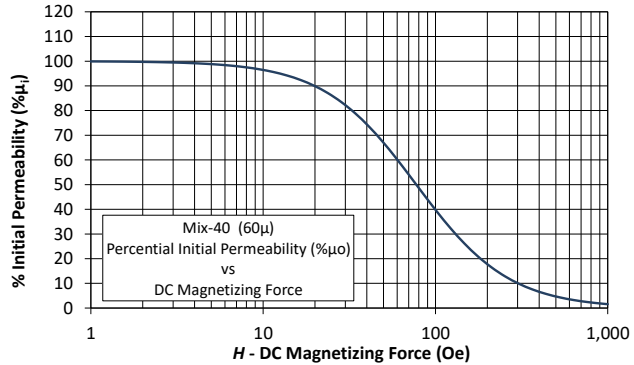
Revision 20190524 - Generated 2019-May-24

| | |
|--------------------------|--|
| μ_i (reference) | 60 |
| Typical AL tolerance | $\pm 10\%$ |
| Color Code | Green/Yellow |
| Density | 6.9 g/cm ³ |
| Bsat | 18.4kG |
| Core Loss (100kHz, 140g) | 127 mW/cm ³ (nom) 146 mW/cm ³ (max) |
| %Perm at DC Bias (50 Oe) | 67.0% (nom) 60.2% (min) |



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

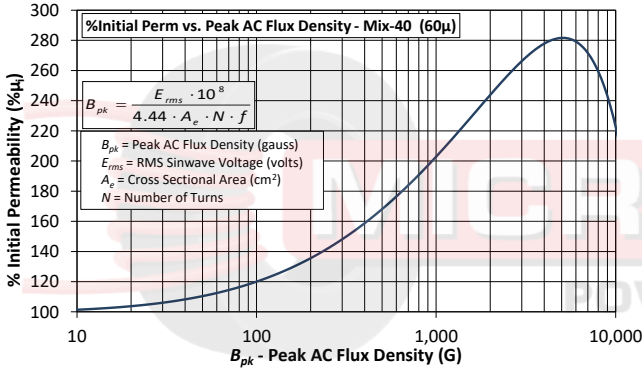
where B_{pk} expressed in gauss, f expressed in hertz, and:
 $a=1.10E+09$, $b=3.30E+07$, $c=2.50E+06$, $d=3.10E-13$



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

where H expressed in oersteds, and:

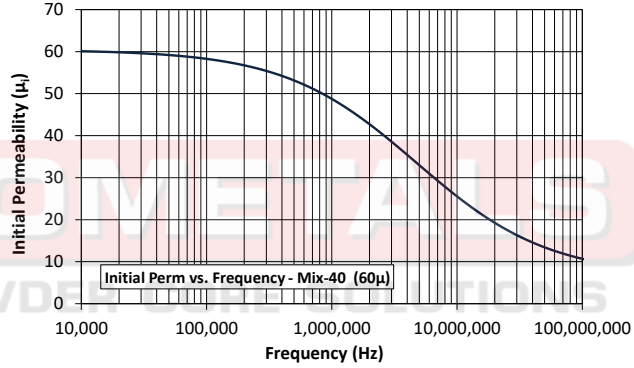
$a=1.00E-02$, $b=8.93E-06$, $c=1.61$, $d=0.00$



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

where B_{pk} expressed in gauss, and:

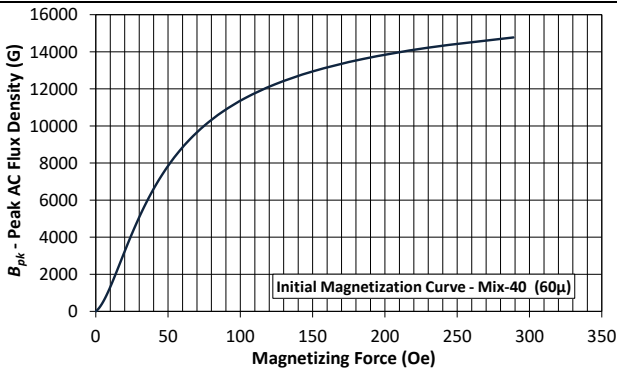
$a=1.32E+02$, $b=7.79E-01$, $c=8.57E-01$, $d=6.95E+14$, $e=-3.02E+00$, $f=3.93E+02$



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

where f expressed in hertz, and:

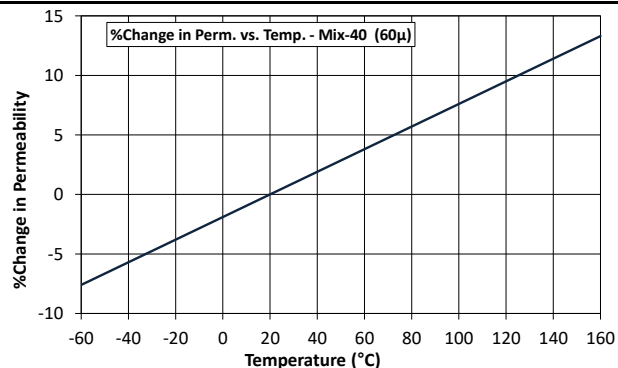
$a=1.86E-02$, $b=5.98E-08$, $c=8.23E-01$, $d=6.64E+00$



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

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

$a=1.88E-01$, $b=1.98E+00$, $c=3.20E+01$, $d=6.65E-01$, $e=3.06E+02$



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

where T expressed in celsius, and:

$a=950$