# Material Properties

| | |
|---|---|
| Material | CF 140 |
| Base Material | MnZn |

| Property | Symbol | Unit | |
|---|---|---|---|
| Initial Permeability (T = 25 $^0$C) | $\mu_i$ | | 2500±20% |
| Flux density H = 1000 A/m, f = 10 kHz) | $B_s$ (25 $^0$C)<br>$B_s$ (100 $^0$C) | mT<br>mT | 390<br>310 |
| Residual Flux Density | Br (25 $^0$C) | mT | 110 |
| Coercive field strength (f = 10 KHz) | $H_c$ (25 $^0$C) | A/m | 24 |
| Relative loss factor (T = 25 $^0$C) | tan $\delta/\mu_i \times 10^{-6}$ | 10kHz<br><br>100kHz | --<br><br>≤ 2.5 |
| Diaccomodation (T = 25 $^0$C) | $D_F$ | $10^{-6}$ | ≤ 3.0 |
| Curie Temperature | $T_c$ | $^0$C | >150 $^0$C |
| Hysteresis Mat. Constant | $\eta_B$ | $10^{-6}$/mT | ≤ 0.4 |
| Resistivity | ρ | Ωm | 1.0 |
| Core Shapes | | | RM, P |

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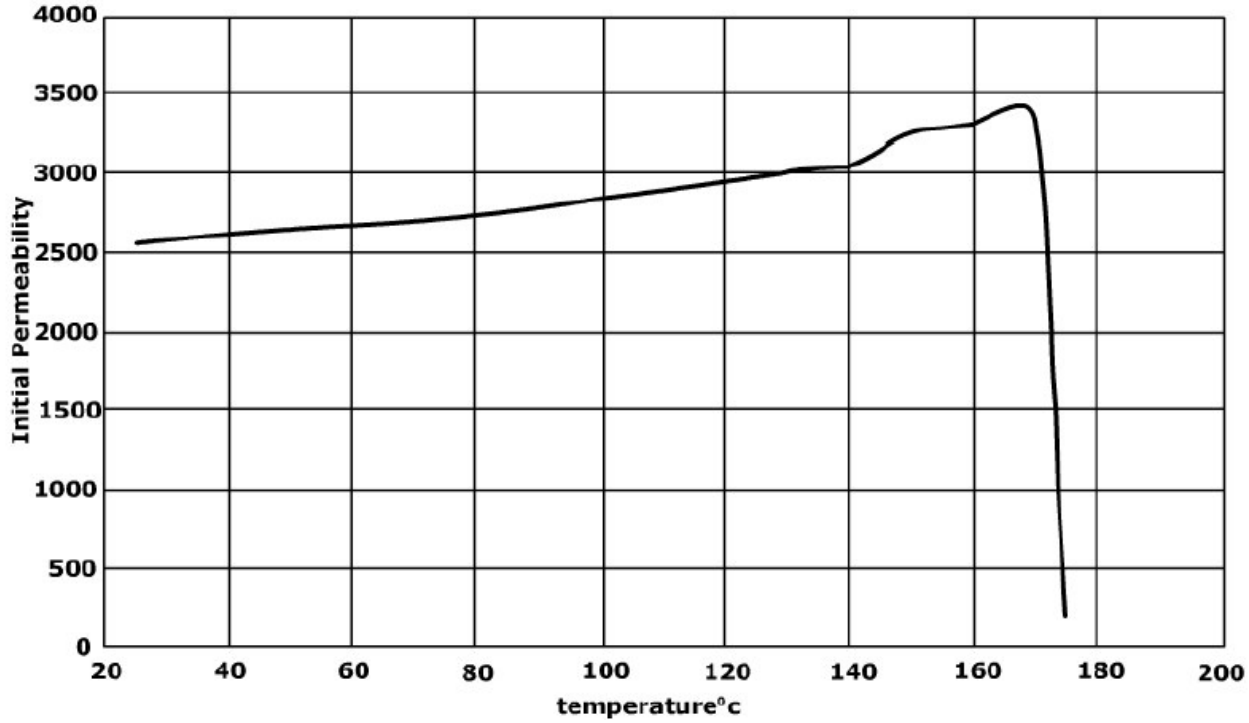
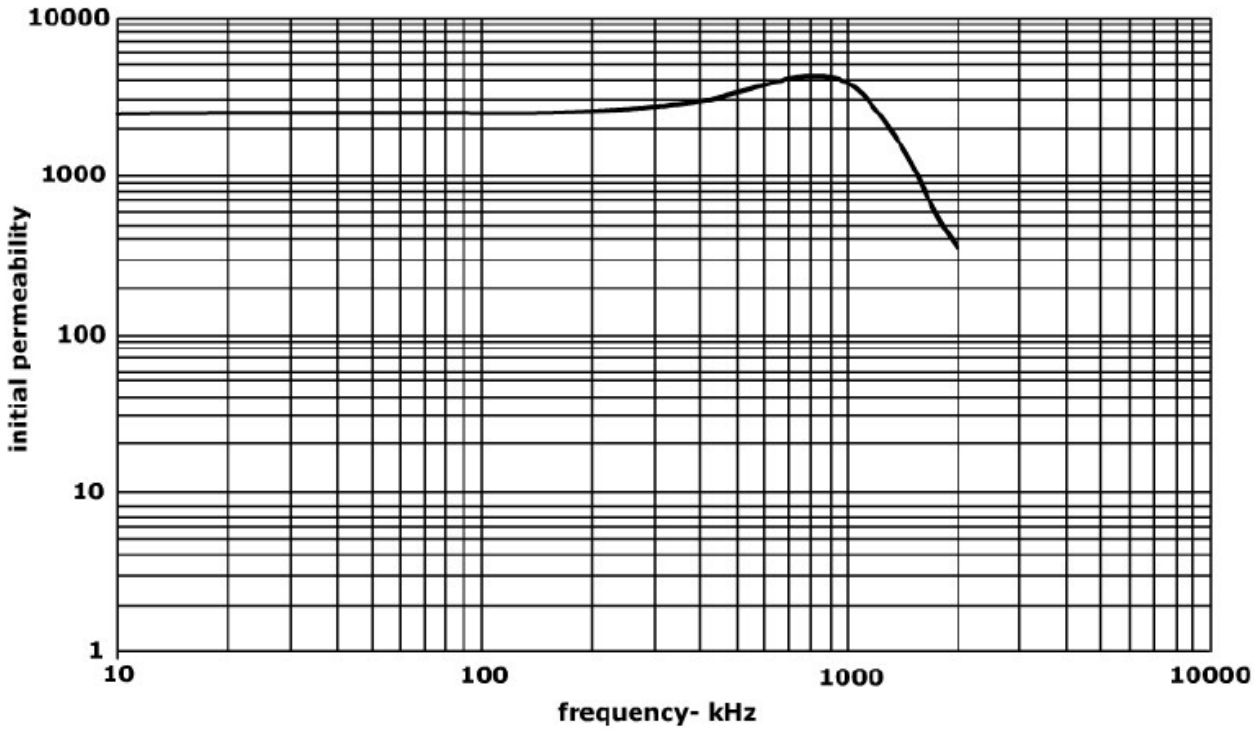
**Initial Permeability versus Temperature (Measured on T2512 Toroids)**




**Initial Permeability versus frequency (Measured on T 2512 Toroids)**

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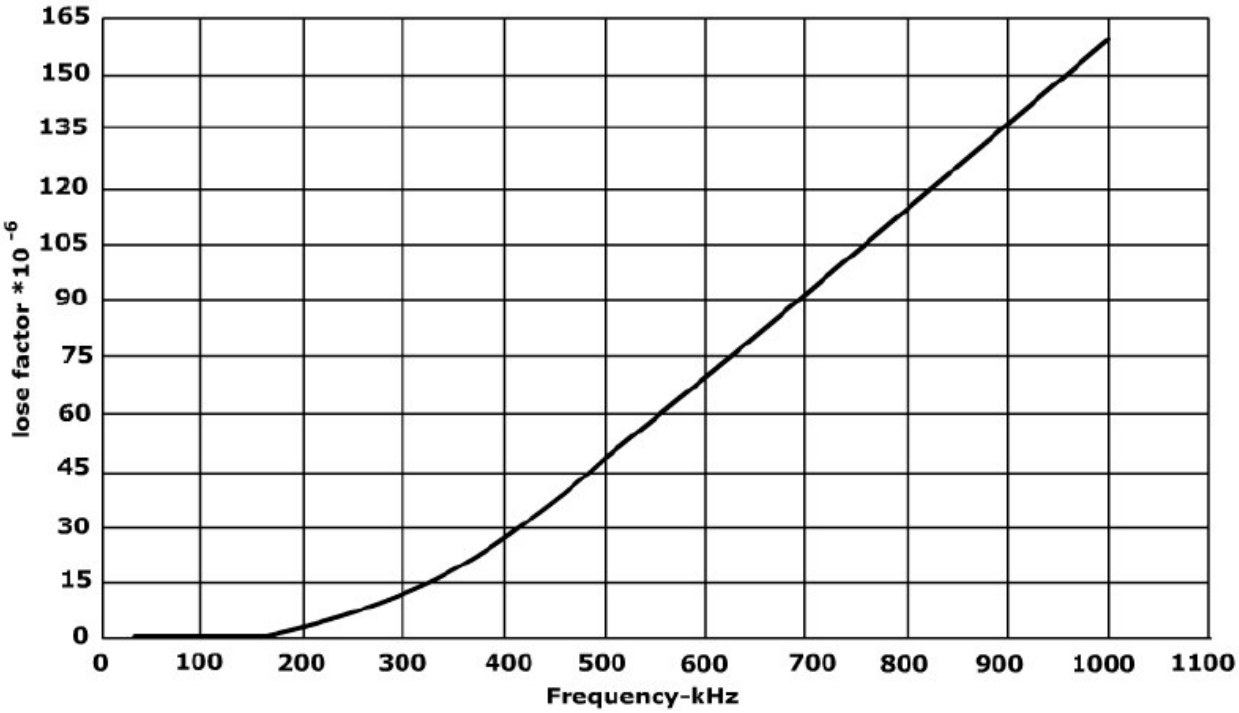
**Core Lossfactor versus Frequency (Measured on T2512 Toroids)**

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