# Material: FW48

## Features:

◎ 1. Low Magnetic Hysteresis Material Constant

◎ 2. Low Relative Factor

| | | | |
|---|---|---|---|
| Initial permeability | $\mu_i$ | 25℃ | 2300±25% |
| Saturation magnetic flux density | Bs(mT) 1194A/m | 25℃ | 430 |
| | | 100℃ | 320 |
| Remanence flux density | Br(mT) | 25℃ | 65 |
| | | 100℃ | 60 |
| Coercivity | Hc(A/m) | 25℃ | 26 |
| | | 100℃ | 19 |
| Relative loss factor 100kHz | tanδ/$\mu_i$ ($x10^{-6}$) | 25℃ 10kHz | ＜2.7 |
| | | 25℃ 100kHz | ＜4.2 |
| Hysteresis material constant 10kHz | $\eta_B$($10^{-6}$/mT) 1 5~3mT | 25℃ | ＜0.4 |
| Relative temperature coefficient | $\alpha_{\mu ir}$ ($x10^{-6}$) | 5℃~25℃ | 0.3~1.5 |
| | | 25℃~55℃ | 0.3~1.3 |
| Curie temperature | Tc(℃) | | ⩾180 |
| Electrial resistivity | ρ(Ω·m) | | 3 |
| Density | d(kg/$m^3$) | | $4.7\times10^3$ |

Test core:Toroid(mm)
OD：31
ID：19
H：6