

**THORNTON**Thornton
Eletrônica Ltda**MATERIALS****MATERIAL CHARACTERISTICS**

MATERIAL	IP6	IP6I2	IP6I3	IP12R	IP12E	TH50	TH60	ELM4
Initial Permeability μ_i	2000 $\pm 25\%$	2200 25%	2200 25%	2100 $\pm 25\%$	2300 $\pm 25\%$	5000 $\pm 25\%$	6000 $\pm 25\%$	450 $\pm 30\%$
Dissipation Factor (rel.) $f = 10$ [Khz]	---	$\leq 2,0$	$\leq 1,0$	---	---	---	---	---
$\tan \delta / \mu_i \cdot 10^{-6} f = 100$ [Khz]	---	$\leq 10,0$	$\leq 5,0$	---	---	---	---	---
Curie Temperature [$^{\circ}\text{C}$]	≥ 165	≥ 140	≥ 160	≥ 210	≥ 210	≥ 130	≥ 130	≥ 140
Coercivity [A/m]	18	18	15	18	18	10	10	40
Flux Density ($^{\wedge}\text{B}$) a 10 Oe, 23 $^{\wedge}\text{C}$ [10^{-3} T]	---	410	400	---	---	390	390	260
Flux Density ($^{\wedge}\text{B}$) a 15 Oe, 23 $^{\wedge}\text{C}$ [10^{-3} T]	480	---	---	510	510	---	---	---
Hysteresis Constant (η_B) [10^{-3} /T]	$\leq 8,0$	$\leq 8,0$	$\leq 1,5$	---	---	$\leq 1,3$	$\leq 1,3$	---
Disaccommodation Factor (D_F) [ppm]	10	$\leq 7,0$	$\leq 5,0$	---	---	---	---	---
Density (ρ) [Kg/m^3]	4800	4800	4800	4800	4800	4900	4900	4900

The material shown above can be used as options for cores in this catalog.