

### Material Grade: DM4748 high property hard ferrite material

Property	Unit	Specification
Br	(mT)	470±10
Residual Flux Density	[Gs]	4700±100
Hcb	(kA/m)	344±12
Coercive Force	[Oe]	4300±150
Hcj	(kA/m)	384±12
Intrinsic Coercive Force	[Oe]	4800±150
(BH)max	(kJ/m <sup>3</sup> )	43.2±1.6
Max.Energy Product	[MGOe]	5.4±0.2
μec	/	1.05-1.1
Relative Permeability		
Br temperature coefficient ΔBr/Br/ΔT	(%/°C)	-0.18
Hcj temperature coefficient ΔHcj/Hcj/ΔT	(%/°C)	0.10
Tc	(°C)	460
Curie Temperature		
ρ	(kg/m <sup>3</sup> )	(4.90~5.10) × 10 <sup>3</sup>
Density	[g/cm <sup>3</sup> ]	4.90~5.10
Anti-Bending Strength	(N/m <sup>2</sup> )	(0.5~0.9) × 10 <sup>8</sup>
	[kgf/mm <sup>2</sup> ]	5~9
Anti-Compressive Strength	(N/m <sup>2</sup> )	≥6.9×10 <sup>8</sup>
	[kgf/mm <sup>2</sup> ]	≥70
Anti-Tensile Strength	(N/m <sup>2</sup> )	(0.2~0.5) × 10 <sup>8</sup>
	[kgf/mm <sup>2</sup> ]	2~5

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