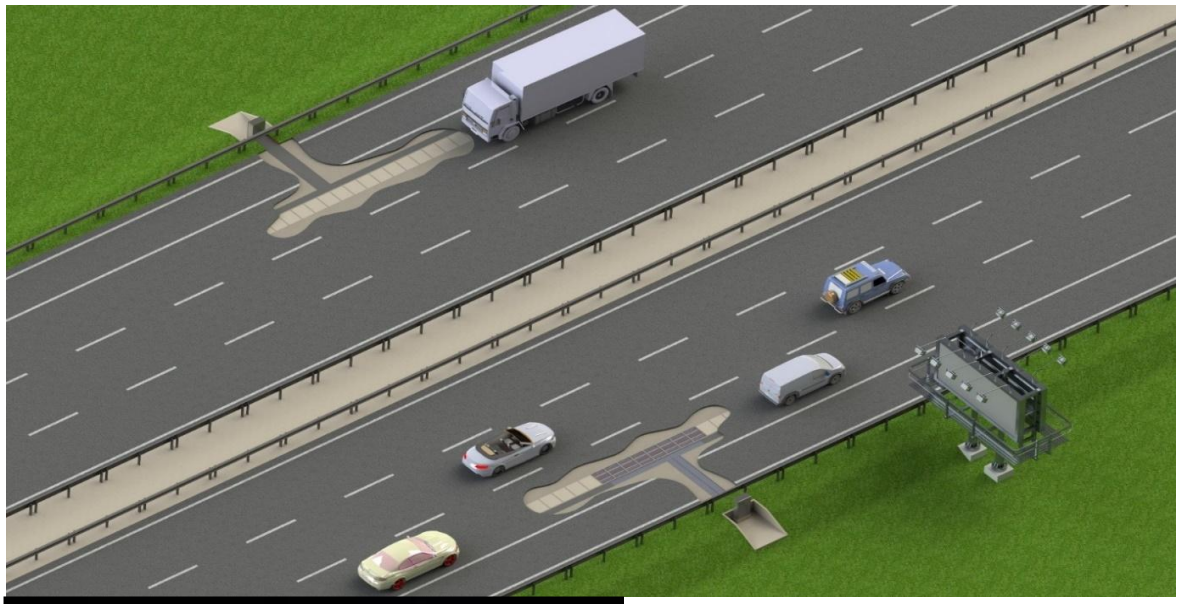

MAGNETIZABLE ASPHALT

MA80®

MAGMENT ENERGY

September 2026

MATERIAL DATA SHEET

MA80 is a registered trade mark DE3020242021661, owned by Magment Energy GmbH

Material Properties

Initial permeability	25°C	μ_i		**80 ± 20%**
Saturation @H=8 kA/m (100 Oe)	25°C	Jmax	[mT]	**320**
	100°C	Jmax	[mT]	**290**
Coercitive field strength	25°C	H_C	[A/m]	**25**
Curie-Temperature		T_C	[°C]	**> 210**
Resistivity	DC	ρ	[Ω m]	**20**
Density		γ	[kg/m³]	**4000**
Relative loss factor	@1 MHz	tanδ/µi	[10^{-3}]	**< 2.5**
Relative temperature coefficient	-40°C…150°C	α_F	[10^{-6}/K]	**< 50**
Hysteresis material constant	10kHz	η_B	[10^{-6}/mT]	**< 7**
DC-Bias (percent permeability change)	@2kA/m (25 Oe)	μ_{rev}/μ_i		**60%**
	@4kA/m (50 Oe)	μ_{rev}/μ_i		**32%**
Realtive core losses	@ 85KHz, 10 mT T= 60°C	P_V	[kW/m³]	**3,8**
Specific heat		c_p	[J/kg K]	**700**
Thermal conductivity		λ	[W/mK]	**5**
Linear expansion coefficient		$\Delta l/l$	[10^{-6}/K]	**12**

Magnetic parameters measured on R250/50 ring cores in accordance with IEC60401-3 & IEC62044-1,-2, and -3.

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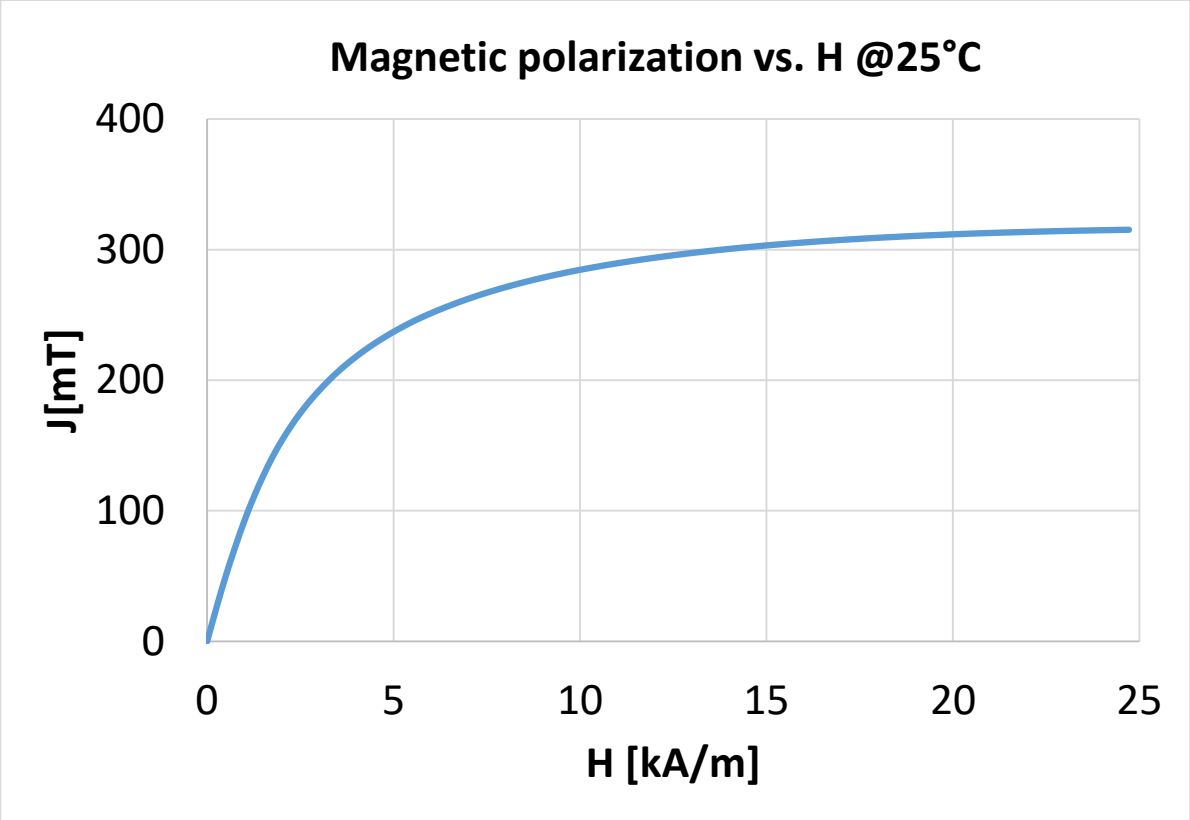

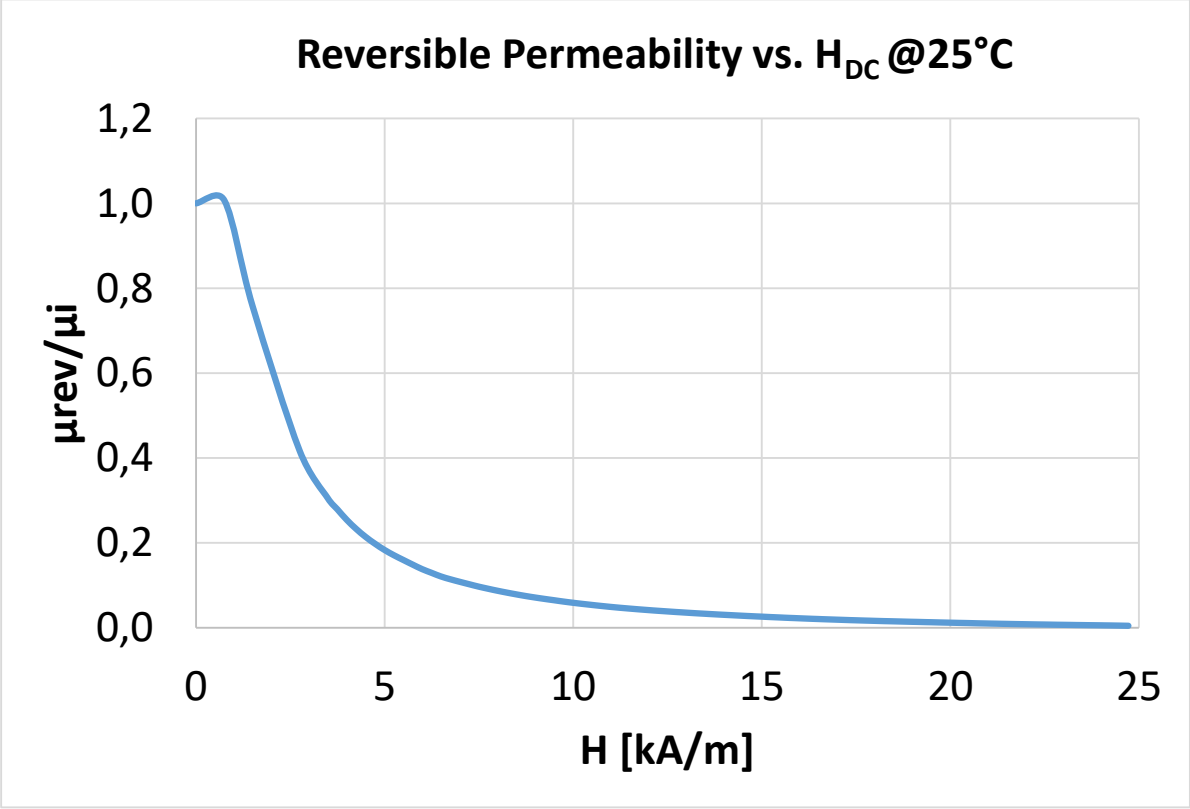

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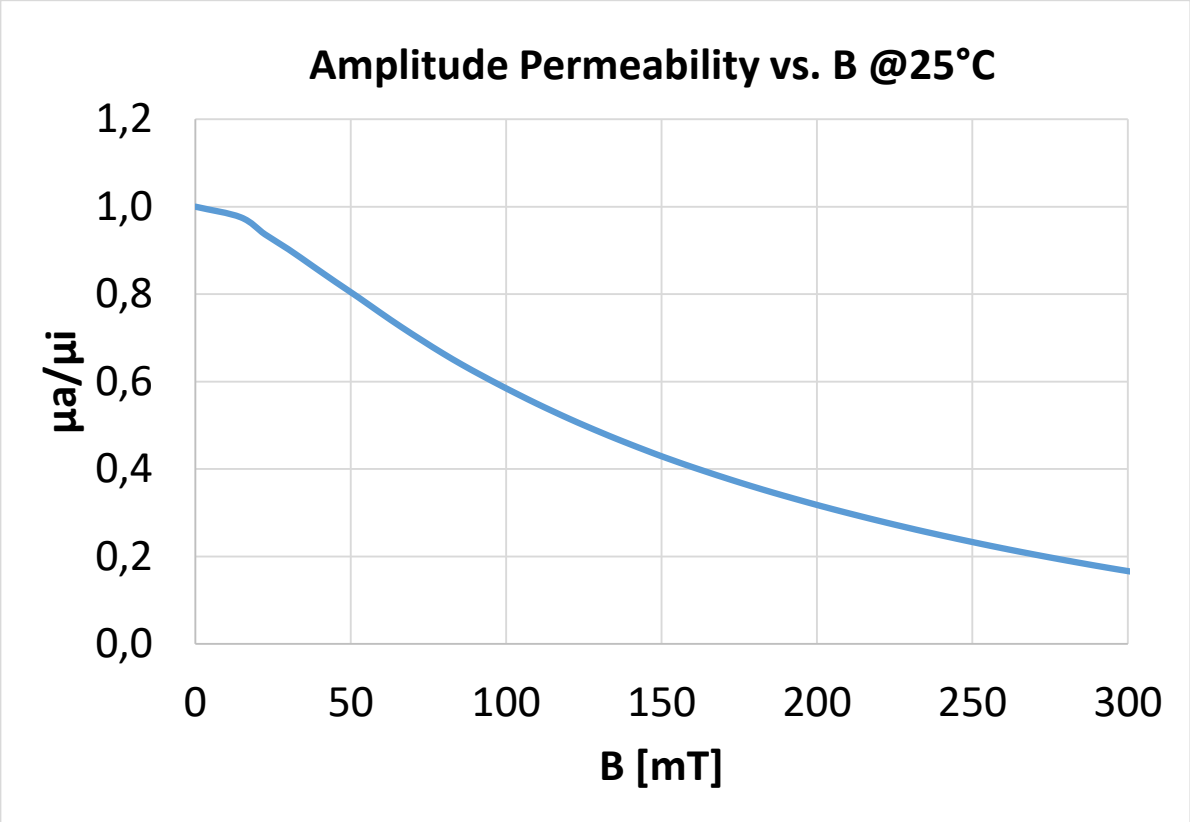

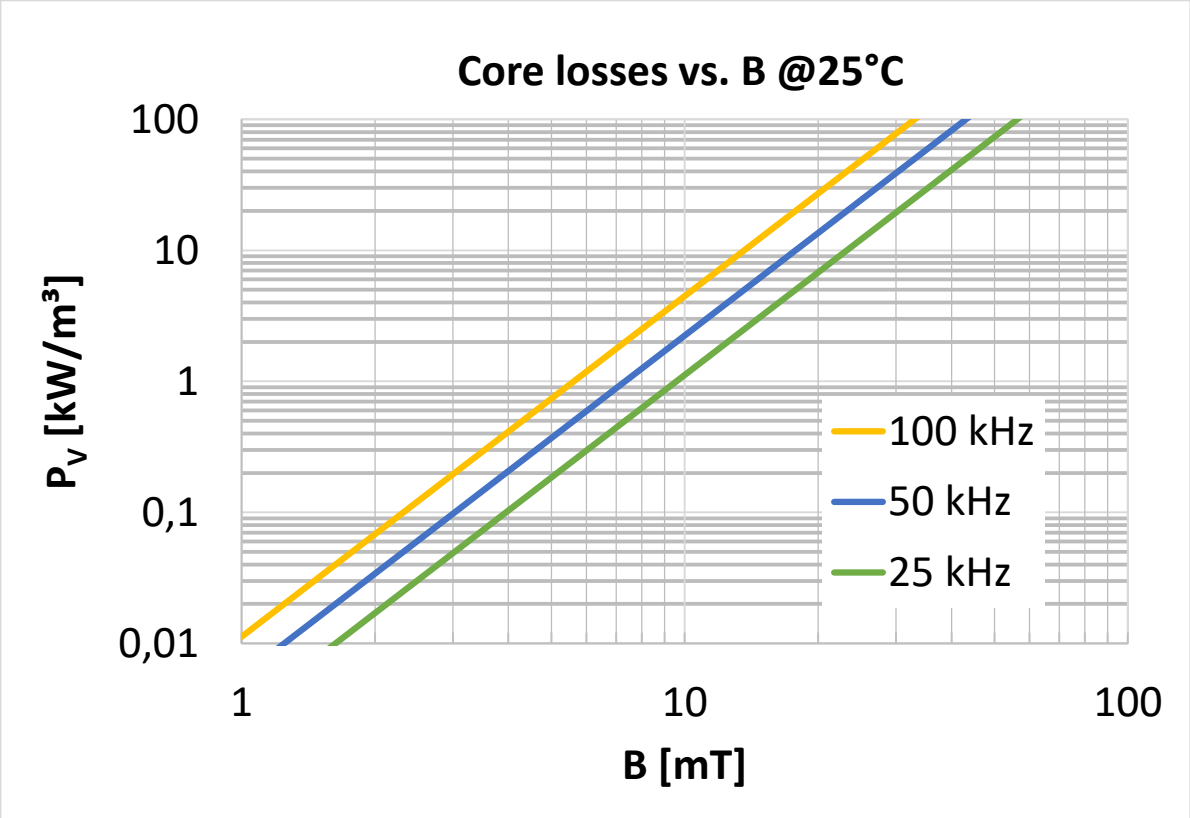

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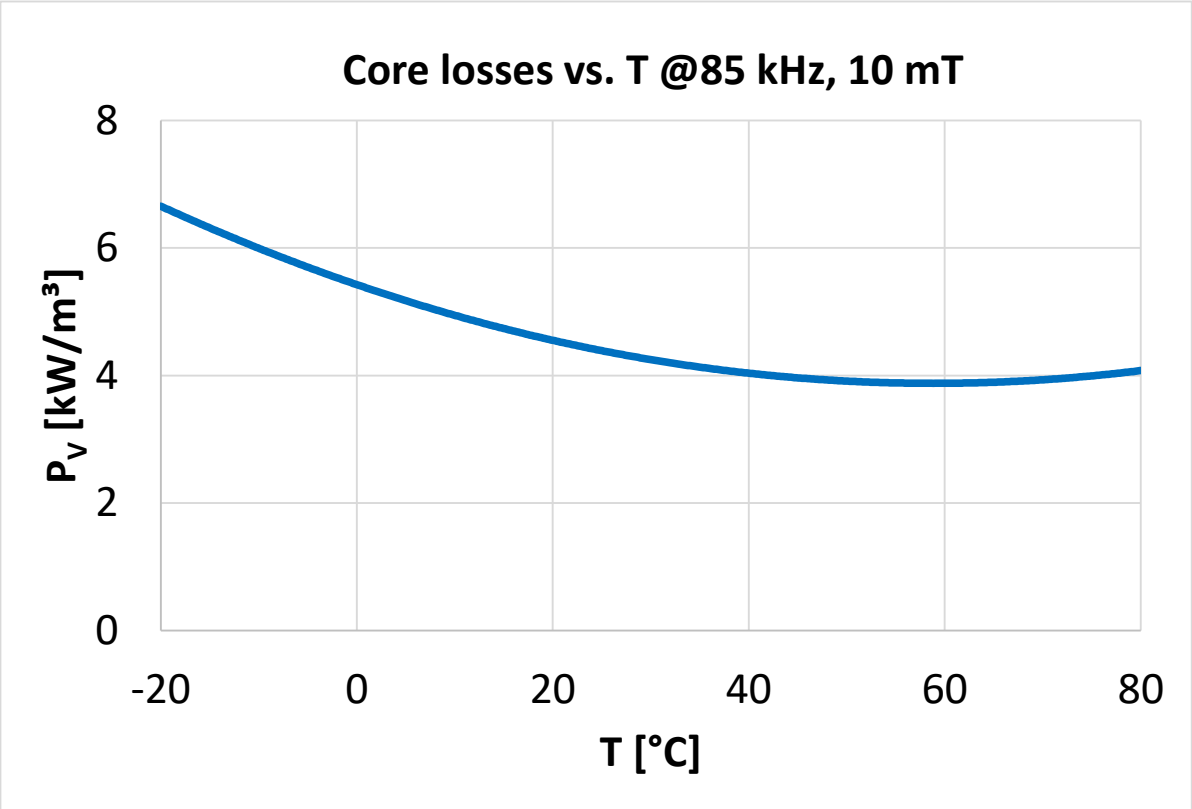

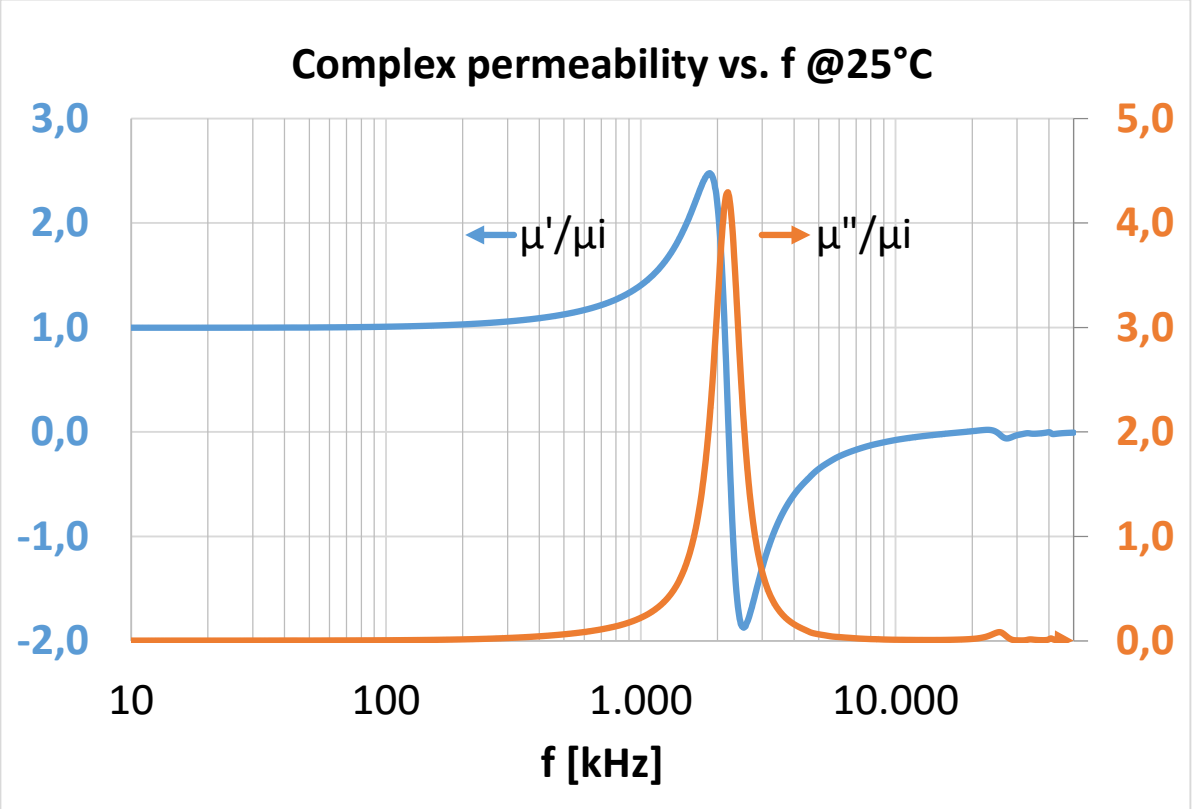

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