

MAGNETEC Epoxy-Coated Nanocrystalline Cores Performance & Protection in One



Advanced Coating Technology for Superior Protection

MAGNETEC's innovative epoxy-coated nanocrystalline cores set a new standard in core performance and reliability. Our proprietary coating technology ensures a precisely controlled, uniform epoxy layer, delivering exceptional surface quality and electrical isolation while enhancing durability.

Superior Coating Quality

Uniform epoxy coating simplifies integration and enhances overall core performance.

Precisely Defined Thickness

Choose ultra-thin (0.1 mm) for minimal size impact, standard (0.5 mm) for robust general use, or reinforced with foil bandage for demanding environments.

Enhanced Protection

Excellent resistance to moisture, abrasion, and environmental stress ensures reliable long-term operation.

Improved Efficiency

Reduced core losses thanks to the smooth, uniform epoxy coating.

Increased Reliability

Superior mechanical protection and electrical isolation..

Technical Specifications

Specification	Details
Core Material	Nanocrystalline alloy - Nanoperm®
Coating Material	Epoxy resin
Coating Thickness	0.1 mm, 0.5 mm, or foil bandage
Operating Temperature	- 40°C to + 130°C
Operating Temperature	Toroidal, oval, rectangular, custom shapes



Applications Across Industries

High-Frequency Transformers

Switch-mode power supplies, inverters, resonant converters.

Inductors & Filters

Effective EMI reduction in electronic devices.

Current Sensors

Accurate current measurement in industrial and automotive applications.

Renewable Energy Systems

Optimized for solar inverters, wind turbines, and energy storage.

Automotive Electronics

Reliable EMI suppression for EV and HEV applications.