

## Nanocrystalline Core Materials In Modern Power Electronic

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Co In the recent years, so called nanocrystalline soft magnetic materials enjoyed more and more acceptance in modern power electronic designs. Besides the undisputed excellent performance this is a result of the improved price level in combination with the availability from several sources worldwide.

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## ~~Nanocrystalline Core Materials In Modern Power Electronic~~

Nanocrystalline material shows excellent properties, with high saturation, and high permeability in a broad frequency range. This combination makes them more suitable for common mode inductors than laminated or powder iron, and ferrites. Nanocrystalline material properties are discussed and compared with conventional materials.

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- Three Types of Core are in Production Lineup Bare core, cased core and over-coated core can be applied depending on customer requirement. HLM50 series have low loss, high magnetic flux density, and high reliability using our uniquely processed amorphous powder. This series is suited to coils for higher switching power electronics applications.

## ~~Nanocrystalline, Amorphous and Powdered Amorphous Cores...~~

A nanocrystalline (NC) material is a polycrystalline material with a crystallite size of only a few nanometers. These materials fill the gap between amorphous materials without any long range order and conventional coarse-grained materials. Definitions vary, but nanocrystalline material is commonly defined as a crystallite (grain) size below 100 nm. Grain sizes from 100 – 500 nm are typically ...

## ~~Nanocrystalline material – Wikipedia~~

A practical welding transformer is designed using nanocrystalline and ferrite materials. The carried out design based on a nanocrystalline core shows improvement in size of above 60% and in weight above 55%.

## ~~Nanocrystalline magnetic materials versus ferrites ... – CORE~~

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VITROPERM® is an iron-based nanocrystalline material with an outstanding combination of soft-magnetic properties, making it the state-of-the-art material for a wide range of applications. VITROPERM products are available as ribbon in thicknesses from 14 µm to 20 µm and widths from 2 mm to 66 mm.

## ~~Nanocrystalline Material—VITROPERM | VAG~~

In most cases, super-strong nanocrystalline materials are characterized by low tensile ductility and low fracture toughness at room temperature. 1 – 10 In particular, some nanocrystalline face-centred cubic (fcc) metals exhibit a ductile-to-brittle transition with decreasing grain size. 18,19,23 In contrast, good ductility is typically inherent to coarse-grained fcc metals where the emission of lattice dislocations from cracks causes effective crack blunting and thus suppresses their growth.

## ~~Nanocrystalline Metal—an overview | ScienceDirect Topics~~

Nanocrystalline is a soft magnetic material composed of 82% iron which has been dubbed the future of magnetic materials in power electronics. Higher permeability means lower loss transformers, which can translate to large reductions in size and weight. Lower losses, smaller size and reduced weight

## ~~Why use nanocrystalline magnetic material?—Pulse Power ...~~

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4.1. Power supplies. Nanocrystalline materials are well established in the essential types of inductors for switched-mode power supplies (SMPS) ranging in transferable energy from less than 100 W for PC-applications up to clocked high power inverters for modern railway driving device with an output power of more than 1 MW.

## ~~Applications of nanocrystalline softmagnetic materials for ...~~

Amorphous and nanocrystalline magnetic cores allow smaller, lighter and more energy-efficient designs in many high frequency applications for invertors, adjustable speed drives and power supplies. Amorphous metals are produced by using special technology where molten metal is cast into thin solid ribbons.

## ~~Amorphous nanocrystalline magnetic cores—Dexter Magnetics~~

Modern core materials for efficient power distribution . ... the development and rapid increase in research of nanocrystalline materials has shown that through proper modifications, revolutionary ...

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The metal materials play important roles in the area of the industry. So it is meanful to use some technologies to improve the comprehensive properties of the metal materials. Comparing with other methods, the surface nanocrystalline technology can improve the strength, the hardness, the abrasive resistance and the corrosion resistance of the metal materials.

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