

Can electrical steel transform the energy infrastructure?

“Without electrical steel, a transformation of the energy infrastructure is not feasible. It is the key material for core components of the energy transition such as wind turbines generators and transformers.

Why is non oriented electrical steel used in E-vehicles?

Among other things, the non-oriented electrical steel is used as the core material in the drives of e-vehicles, where it can significantly enhance the performance of the electric motor. In both the stator and rotor the quality of the electrical steel has a decisive impact on the efficiency of the motor.

What is electrical steel?

This type of steel contains between 1% to 6% silicon, which significantly improves its electrical resistivity and reduces eddy current losses, enhancing the overall performance of electrical devices. Electrical Steel is available in two main types: Grain-Oriented (GO) and Non-Grain Oriented (NGO), each tailored for specific applications.

Why is non-grain steel essential for electric mobility?

“Non-grain-oriented electrical steel is indispensable for electric mobility,” says Frank Bosch, Key Account Manager in Sales Automotive at thyssenkrupp Steel. This is due to the special requirements placed on the drive unit in electric vehicles.

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Discover the benefits, types, and applications of electrical steels in our comprehensive guide. Learn about efficiency, types, and manufacturing processes.

Stainless steel stations are used in the area of local network or industrial stations, as well as in the area of renewable energies and e-mobility. Due to the modular design of the compact substation, we can ...

Part 1 of this course series is concentrated on demonstrating how modern power systems are arranged to accomplish all these goals; what place electrical substations have in the overall power system ...

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Misurata (LISCO) power station (???? ????? ?????? ?????? ??????) is an operating power station of at least 507-megawatts (MW) in Misrata, Libya. It is also known as Libyan Iron and Steel Company power plant, ...

Energy inputs and associated costs Energy constitutes a significant portion of the cost of steel production, from 20% to 40%.^{2, 3} Thus, improvements in energy efficiency result in reduced ...

losses of the electrical steel, the higher the efficiency. This is key when it comes to meeting increasing demands for electricity powercore#174; grain oriented electrical steel is also used in charging stations for ...

Non grain oriented electrical steel is a soft magnetic steel with uniform magnetic properties in all directions. It is developed for applications that require variable magnetization, such as electric motors ...

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