

### **CWIEME 2022 in Berlin: thyssenkrupp presents high-quality electrical steel products, the base material for the energy and mobility transition**

- At CWIEME thyssenkrupp presents electrical steel, the base material for the energy and mobility transition
- Efficiency is always the maxim: in generators, transformers and in electric motors
- Presentations by and discussions with experts from thyssenkrupp on CO<sub>2</sub>-reduced electrical steel
- May 10-12, Hall 2.2, Booth 22A21-B20

Meeting customers and business partners again, talking to them in person – at CWIEME trade fair in Berlin starting on May 10: For three days, the experts from thyssenkrupp Electrical Steel and the Automotive sales unit of thyssenkrupp Steel will be presenting new powercore® products and services for transformers, generators, electric motors and e-mobility. CWIEME, the leading trade fair for coil winding, insulation and electrical manufacturing, takes place every year and is the venue for customers and visitors from all over Europe.

#### **Electrical steel – a base material for the energy and mobility transition**

In wind turbine generators, it reliably converts mechanical energy into electricity. In transformers, it enables the efficient transport and supply of energy. And in electric motors, it ensures the economical and energy-efficient drive. powercore® electrical steel made by thyssenkrupp is an indispensable base material for the energy and mobility transition. At the trade fair in Berlin, the experts of thyssenkrupp Electrical Steel will present, among other things, top grades, i. e. technologically sophisticated top powercore® grades, which are characterized by particularly low core losses and thus achieve high efficiencies in current

conversion. The ultra-thin electrical steel, no thicker than 0.23 mm, is used primarily in modern high-efficiency and low-noise transformers.

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Visitors to the stand can also learn about the innovative powercore® Rotate grades, grain-oriented electrical steel for high-efficiency electric motors and generators. New drive concepts for e-vehicles, such as axial flux motors made from powercore® Rotate material, can increase power density and thus achieve greater vehicle range. thyssenkrupp Electrical Steel will also present its “inTrafo-Software“, a software solution for designing and optimizing transformer cores according to IEC standards and global efficiency regulations. The software enables the calculation of the transformer core using different grain-oriented electrical steel grades in the same core. The result: best and most cost-effective core material combination to minimize no-load losses.

The automotive experts from the Duisburg-based company are getting e-mobility going and will present the non-grain-oriented (NO) powercore® Traction electrical steel: grades specially developed and optimized to meet the requirements of highly efficient and powerful e-drives for long ranges and maximum vehicle dynamics.

### **Climate-friendly product already saves CO<sub>2</sub> during production**

Furthermore, the steel company will present its CO<sub>2</sub>-reduced electrical steel bluemint® Steel powercore® at CWIEME in Berlin and show where the material is already being used. As a pioneer in the energy transition, thyssenkrupp Steel aims to produce 3 million metric tons of CO<sub>2</sub>-reduced steel per year from 2030 on. The company plans to make steel production completely climate-neutral by 2045. bluemint® Steel was launched in October 2021 and is the first CO<sub>2</sub>-reduced product.

### **Dates**

May 10, 2022, 2:30 to 3:00 p. m.

**Presentation** at the CWIEME conference: CO<sub>2</sub>-reduced electrical steel by thyssenkrupp Steel Europe for the decarbonization of the electricity process chain: bluemint® powercore®

Speaker: Dr. Carmen Ostwald, Head of Strategies, Markets and Business Model, thyssenkrupp Steel Europe

May 11 and 12, 2022, at 2:00 to 2:30 p. m.

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**Greentalk** with Dr. Carmen Ostwald, followed by dialog with the thyssenkrupp Electrical Steel  
Sales Department: Marcel Hilgers and Dr. Matthias Schick

At the thyssenkrupp stand, hall 2.2, stand 22A21-B20, in the bluemint® Area

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