

thyssenkrupp Steel at Coiltech Italia 2025: Material solutions for the mobility and energy transition

- Efficient electromobility: Non-grain-oriented electrical steel powercore® traction and the stabosol® adhesive bonding system for powerful and energy-efficient electric motors in high-volume production.
- Future-proof energy supply: Technologically advanced top grades of grain-oriented electrical steel powercore® and the new inTrafo software solution for optimizing transformer cores to achieve maximum efficiency.
- Climate-friendly materials: CO₂-reduced products under the bluemint® Steel brand, offering identical material properties to conventional grades – with a significantly lower carbon footprint.
- thyssenkrupp Steel at Coiltech Italia in hall 5, booth B08.

Duisburg, September 16, 2025 – At Coiltech Italia 2025, taking place on September 17 and 18 in Pordenone, thyssenkrupp Steel and thyssenkrupp Electrical Steel will showcase advanced materials and technologies that support the transformation of mobility and energy systems. The spotlight will be on high-performance electrical steel grades from the powercore® and powercore® traction product families, which stand for maximum energy efficiency and sustainability.

For electric drive applications, thyssenkrupp Steel will present specially engineered non-grain-oriented (NGO) electrical steel grades under the powercore® traction brand. These materials are optimized for magnetic performance, enabling extended driving ranges and enhanced dynamic response. The portfolio is complemented by stabosol®, a high-reactivity bonding system for the production of glued stator and rotor stacks. This solution enables energy-efficient large-scale production of electric motors with cycle times comparable to conventional interlocking methods.

In the field of energy infrastructure, the focus is on grain-oriented (GO) electrical steel, including technologically advanced top grades with exceptionally low core losses. These ultra-thin materials – in some cases as thin as 0.23 mm – are used in modern, low-noise transformers and contribute to high efficiency in power conversion.

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With inTrafo, thyssenkrupp Electrical Steel offers a new digital tool for the design and optimization of transformer cores. The software enables the combination of different GO grades within a single core, supporting the development of cost-efficient and high-performance transformers in line with international efficiency standards.

Another key topic is the bluemint® Steel product portfolio, which includes CO₂-reduced flat steel and electrical steel. These certified materials are produced at the Duisburg site and offer identical technical properties to conventional grades – with a significantly reduced carbon footprint. thyssenkrupp Steel is committed to producing three million metric tons of carbon-neutral steel annually by 2030 and achieving full climate neutrality in steel production by 2045.

thyssenkrupp Steel will be exhibiting at Coiltech Italia in hall 5, booth B08.

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