

thyssenkrupp Steel at Tube 2024 in Düsseldorf: Customized hot-rolled steels for the tube industry

- thyssenkrupp's stand in hall 3, booth 3C28 offers visitors manganese-boron steels for precision steel tubes for lightweight automotive construction, hot-rolled steels for durable and robust line pipes for water, oil, gas and hydrogen transportation, among other things
- tkH2Steel® for climate-neutral steel production and CO₂-reduced bluemint® steels for supporting climate protection

Tube in Düsseldorf is the world's most important trade fair for the tube and tube processing industry. From April 15 to 19, thyssenkrupp will once again be welcoming visitors to Hall 3, booth 3C28, where the Materials Services and Steel business units will be presenting their innovative products and looking forward to exchanging ideas.

Whether precision steel tubes for lightweight automotive construction or robust pipelines – the applications for hot-rolled steels are multi-faceted. And the requirements of the customer industries are increasing. Last but not least, the footprint left behind by the manufacture of many products is becoming increasingly important. At Tube, thyssenkrupp Steel is therefore presenting bluemint® Steel, the high-quality flat steel from Duisburg with reduced CO₂ intensity.

Manganese-boron steels: Premium material for lightweight automotive engineering

High-strength precision steel tubes offer enormous potential for weight reduction in automotive engineering and are used in the powertrain and chassis, among other things. MnB-alloyed tubor® steels from thyssenkrupp Steel are very easy to process in the delivery state, have a uniform surface and are ideal for welded, cold-rolled or cold-drawn precision

steel tubes. They are characterized by a homogeneous and fine-grained microstructure with a low sulphur and phosphorus content. Segregations in the microstructure are significantly minimized by using special process engineering measures. Thanks to optimized production in combination with an analysis tailored to the end application, tubor® steel grades offer higher strength combined with high toughness in the quenched and tempered condition.

For secure transportation via pipeline: Steels for durable and robust line pipes

Steels for welded line pipes for water, oil and gas transport as well as for the distribution of hydrogen and carbon dioxide must meet special requirements depending on the medium to be transported. thyssenkrupp Steel supplies special steels for all applications of large-diameter pipes:

- Line pipes according to API 5L/DIN EN ISO 3183
- Pipes for the transportation of hydrogen in accordance with EIGA guidelines
- Sour gas resistant line pipes according to API 5L, Annex H
- CO₂ transport pipes according to ISO 27913
- Oilfield pipes (OCTG) according to API 5CT
- Water pipes in accordance with EN 10224 and API 5L
- Construction pipes and profiles in accordance with DIN EN 10219-1 and API 5L

For customers' climate protection targets: bluemint® Steel and the tkH2Steel® transformation project

With bluemint® Steel, CO₂-reduced steels, thyssenkrupp Steel is already supporting its customers' climate protection ambitions. With bluemint® recycled, in whose production scrap is used in the blast furnace process, thyssenkrupp Steel saves emissions at the Duisburg site and thus supports its customers in reducing their scope 3 emissions. bluemint® Steel is available in the entire grade portfolio and in all dimensions.

However, the aim is to make the entire production process climate-neutral with the tkH2Steel® transformation project. To this end, thyssenkrupp Steel is building a direct reduction plant at the Duisburg site, which will be able to directly avoid up to 3.5 million

tons of CO₂ by using hydrogen and renewable electricity when it is commissioned in 2027.

04/10/2024

Page 3/3

Contact:

thyssenkrupp Steel Europe AG

Public-/Media Relations

Christine Launert

T: +49 203 52 - 47270

christine.launert@thyssenkrupp.com

www.thyssenkrupp-steel.com