

Steel

Pipeline steel – tough enough for the most stringent demands

Tailored hot-strip solutions plus
expert support for the energy
industry.



thyssenkrupp



High standards, complex regulations, exposure to extreme environmental pressures – the demands placed on energy facilities are stringent and ever-changing. And no two projects are alike. At thyssenkrupp, we draw on a strong track record in supplying pipeline steels and know-how both for oil and gas installations and for chemical facilities. Since the 1950s, pipeline projects all over the world have relied on us for individual solutions to master the toughest challenges.



Pipeline expertise to build on

Pipeline steel from thyssenkrupp is engineered to meet the exacting requirements of the energy and chemicals industries. In decades of close cooperation with pipeline construction companies, we have developed a tailored offering that precisely meets the needs of pipeline projects.

Your advantages at a glance



Thicknesses up to 25.4 millimeters and widths up to 2,000 millimeters



Special grades for sour oil and gas, tested in our HIC lab



Coil weight as high as 36 tonnes



Longitudinal welding of pipes up to 24 inches in diameter



Qualities you can count on

Only steel of 100% reliable quality is robust and safe enough for your pipelines. For this reason, our pipeline steel undergoes constant quality control through each processing stage, from primary material to final manufacture. Available in various widths and coil weights as well as special corrosion-resistant grades, it is characterized by excellent weldability, extreme toughness and consistently precise thickness. Testing for resistance to hydrogen-induced cracking (HIC) in our HIC lab guarantees maximum reliability in pipelines for sour oil and gas.



Partnering right down the line

Whatever grade of pipeline steel you're looking for, we can offer the entire spectrum – from steel for the production of API 5L pipes and ISO 3183 pipes. But with thyssenkrupp, excellent steel products are just the beginning. In us, you have a partner with the expertise and resources to support you in every aspect of processing of our material. Vast experience as well as our in-house testing laboratories place us in a unique position to develop tailor-made solutions, including longitudinal welding. Your advantage: minimized risk of setbacks and enhanced project efficiency throughout.



HIC lab

In our state-of-the-art corrosion lab, located in Duisburg, Germany, we can ensure that specially-developed grades for sour oil and gas will stand up under real-life conditions. The facility, certified according to DIN 17025 DaKKs, enables us to perform destructive and non-destructive tests on cold and hot strips for hydrogen-induced cracking (HIC) and hydrogen stress corrosion cracking (HSCC) in line with API 5L/ISO 3183 requirements.

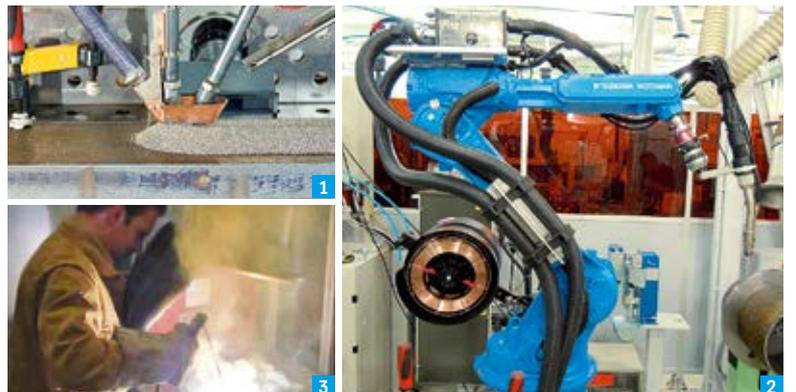




1 Submerged arc welding including single, tandem, double-wire and narrow-gap welding. **2 Gas metal arc welding** including single- and double-wire welding as well as impulse and flux-cored filler wire welding. **3 Manual arc welding** with all the usual electrodes.

Welding lab

In our welding lab equipped to handle steel more than 3 mm thick, we put processes to the test long before onsite work begins. This way, you can be assured that welds on a given steel grade and thickness will perform as needed. We also offer support in special techniques such as longitudinal welding. In addition, our welding lab experts are there to answer any questions that may arise.



The right grade for every project

Our pipeline steel range includes all relevant grades available in various thicknesses and widths. Depending on the specific requirements of your project, our experts will advise you in selecting precisely the type needed. We can also deliver exceptionally large coils of up to 36 tonnes. Your benefits: fewer coil changes, time savings and reduced costs.

Current delivery program

	Non Sour		Sour
	PSL 1 [mm]/[in]	PSL 2 [mm]/[in]	[mm]/[in]
Grade			
≤X42	25.4x2,000/1.0x79	25.4x2,000/1.0x79	25.4x2,000/1.0x79
X52	25.4x2,000/1.0x79	25.4x2,000/1.0x79	25.4x2,000/1.0x79
X56	25.4x2,000/1.0x79	20.0x1,600/0.8x63	18.0x1,600/0.7x63
X60	25.4x1,800/1.0x71	20.0x1,600/0.8x63	18.0x1,600/0.7x63
X65	25.4x1,800/1.0x71	23.0x1,600/0.7x63	16.0x1,600/0.6x63
X70	25.4x1,800/0.9x71	23.0x1,600/0.7x63	On request
X80	On request	On request	

Max. thickness and max. width in mm/inches. Other dimensions and special requirements by arrangement. We also offer Oil Country Tubular Goods (OCTG) solutions, available in API 5CT configurations (H40, J55, N80, and K55). Through our Heavy Plate Business Unit, we also deliver pipeline steel as quarto plate in grades X42, X52, X60, X65, X70 as well as Grade A and B according to API 5L/ISO 3183. We also offer steel grades L245ME, L290ME, L360ME, L415ME, L450ME and L485ME as quarto plate according to ISO 3183 Annex M.



Delivery details and product specification

Coil ID	762 mm \pm 7% (30 inches \pm 2 inches)
Coil OD	max. 2,150 mm / max. 85 inches
Coil weight	max. 36 mt
Coil width	max. 2,030 mm / max. 80 inches
Thickness	max. 25.4 mm / max. 1.0 inches

Specific coil weight

16–23.5 kg / mm for min. 90% of the deliveries, 8–16 kg / mm for max. 10% of the deliveries



thyssenkrupp – a partner that understands its business. And yours.

Our mission is to advance your business – through sound advice, individual and innovative solutions and fulfillment of your specific needs. Our extensive technological know-how, gained over many years, makes this possible. As does our ability to see things the way you do. This enables us to develop an in-depth understanding of your business model. Our brand promise says it all: “engineering. tomorrow. together.” Because when it comes to finding successful solutions for tomorrow, the closer we cooperate the better.



Comprehensive customer support.

Turn to our Technical Customer Service for full support in the selection and processing of our pipeline steel for your project. There you will find experts to help you with all aspects of project logistics and coil-to-pipe processing, providing answers to structure- and forming-related issues, product training and optimization of fabrication processes.

Tailored services.

To ensure you get precisely the right product in the right place at the right time, we provide highly-efficient logistics services for targeted delivery of pipeline steel. In addition, we offer tailored prefabrication to meet your project needs.

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