



Nickel Alloyed Plates

Steel Grades for Cryogenic Applications



**ILSENBURGER
GROBBLECH**
A Member of the Salzgitter Group

Steel Grades for Cryogenic Applications – Nickel Alloyed Plates

General Information

We produce heavy plate for various branches and areas of application with 650 employees in Ilsenburg. From our location in the center of Germany and Europe, we supply approximately 700,000 tons of heavy plate annually in 350 steel grades to our customers all over the world.

Steel Grades for Cryogenic Applications According to European Standards or ASTM/ASME

12Ni14, 12Ni19, X12Ni5, X7Ni9, X8Ni9,
A/SA 203 Gr. D, A/SA 203 Gr. E, A/SA 353, A/SA 553
Other grades on request.

Certification

By all well-known certification companies (for example DNV, BV, LR, LRS an ABS)

Dimensions

Dimensions		
Thickness		5–80 mm*
Width		
Quenched and Tempered		max. 3,500 mm
Direct Quenching		max. 3,800 mm
Double Normalized and Tempered		max. 3,800 mm
Length		
Quenched and Tempered		4,000 – 16,000 mm
Direct Quenching		4,000 – 24,000 mm
Double Normalized and Tempered		4,000 – 24,000 mm
Plate Weight		max 20.5 t

* Thickness > 80 mm on request.

Processing Skills

Plate Rolling

Rolling stand with 80,000 kN force
Surface inspection of both sides of the plate
100% ultrasonic inspection

Shot Blasting

Maximum degree of descaling: SA ½ according to
SIS 055900

Primer

Dry film thickness: approx. 15 to 35 µm
PVB and epoxy-based iron-oxide primer
Zinc-epoxy primer
Zinc-silicate primer

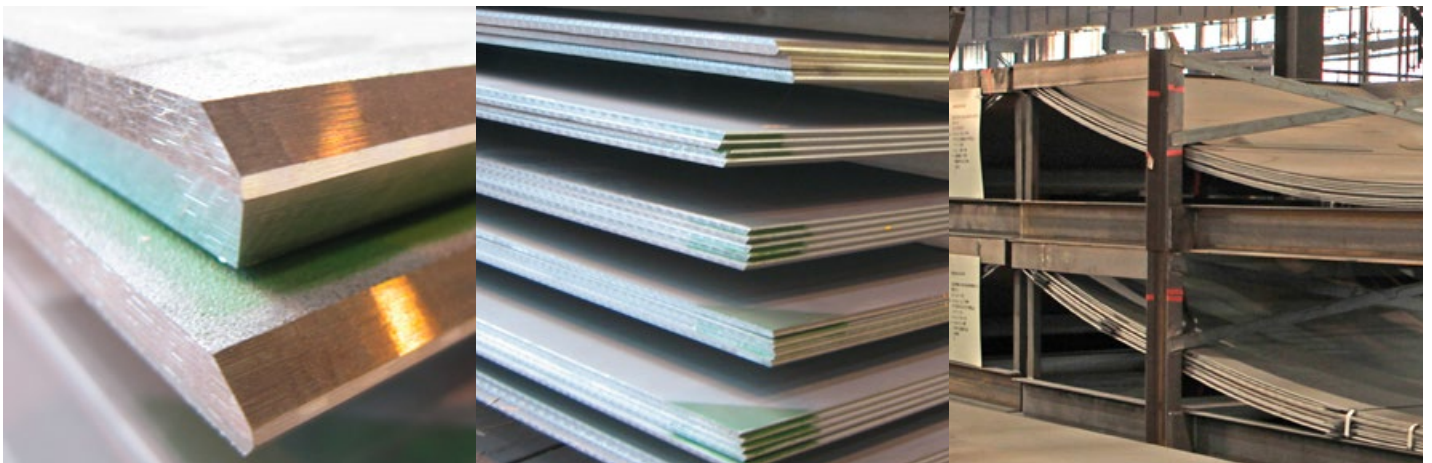
Edge Preparation / Beveling

U, V, X, Y, double-U, double-Y seams (other seams on request)
Thickness: 5–90 mm
Length: 4,000–18,800 mm
Mechanical beveling machine: Linsinger

Four Roller Plate Bending

Bending diameter: min. 620 mm
Thickness: 6–50 mm
Width: max. 3,500 mm

All production and transport processing measures are designed to minimize residual magnetism.



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Areas of Application

The nickel alloyed plates of Ilseburger Grobblech can be used for various areas of applications.

References*

Project	Weight	Country	Material	Delivery
Two Land-Based LNG Tanks	3,300 t	Papua New Guinea	A 553	2010–2011
Land-Based Ethylene Tank	660 t	Dubai	A 553/X7Ni9	2011
Vessel Ethylene Tanks	710 t	China	X12Ni5	2012
Two Land-Based LNG Tanks	3,600 t	Australia	A 553	2012
Vessel Ethylene Tanks	4,000 t	China/Korea	X12Ni5	2012
Three Land-Based LNG Tanks	6,100 t	France	X7Ni9	2012–2013
Land-Based Ethylene Tank	1,145 t	Qatar	A 553	2012–2013
Storage Tank	550 t	China	A 553	2013
Land-Based LNG Tank	1,700 t	China	A 553	2013
Three Land-Based LNG Tanks	4,900 t	China	X7Ni9	2013
Four Land-Based LNG Tanks	7,000 t	Russia	X7Ni9	2014–2015
Land-Based LNG Tank	545 t	Russia	X7Ni9	2016/2017
Vessel LNG Fuel Gas Tank	1,075 t	China	LR5%Ni (X12Ni5)	2016
Vessel LNG Fuel Gas Tank	480 t	China	X8Ni9 (ABS)	2016
Vessel LNG Fuel Gas Tank	1,920 t	Germany	X8Ni9 (RINA)	2016–2018
Vessel LNG Fuel Gas Tank	430 t	China	SA553T1	2018
Land-Based Ethylene Tank	435 t	Slovakia	X7Ni9	2018
Land-Based LNG Tank	1,870 t	China	X7Ni9	2018/2019
Vessel LNG Fuel Gas Tank	2,010 t	China	X8Ni9 (BV)	2018
Three Land-Based LNG Tanks	5,844 t	China	X7Ni9	2019
Vessel LNG Fuel Gas Tank	270 t	Germany	X8Ni9 (LR)	2019
LEG-/LPG-/Ammonia-/VCM-Carrier Tank	585 t	Germany	X8Ni9 (DNV-GL)	2019
Two Vessel LNG Fuel Gas Tank	130 t	China	SA553T1 (DNV-GL)	2019
Land-Based Ethylene Tank	260 t	Mexico	A553T1	2020
Vessel LNG Fuel Gas Tank	300 t	Germany	X8Ni9 (LR)	2020
Vessel LNG Fuel Gas Tank	305 t	Germany	X8Ni9 (LR)	2020
Vessel LNG Fuel Gas Tank	67 t	China	SA553T1 (DNV-GL)	2020
Land-Based LNG Tank	755 t	Canada	SA553T1	2020
Four Vessel LEG-/LPG-/Ammonia-/VCM-Carrier	8,500 t	China	LR5Ni (LR)	2020
Vessel LNG Bunker Barge Tank	365 t	China	SA553T1 / SA553T1 (RINA)	2020
Vessel LNG Carrier Tank	2,880 t	China	X(Ni9 (DNV-GL)	2020
Two Land-Based LNG Tanks	4,380 t	Russia	A 645 Gr. B	2021/2022

*Since 2010 only.

The ILG Principle

Starting from the receipt of the iron ore up to the delivery of the plates to its customers, Ilseburger Grobblech GmbH ensures a continuous quality assurance.

Our Expertise

Ilseburger Grobblech GmbH has more than 30 years of experience with the production and processing of nickel alloyed steel. Since 2021 we are operating a new MultiFlex-Quench from SMS to achieve superior surface quality and flatness of our Nickel plates.

Your Benefits

Through these advantages of Ilseburger Grobblech GmbH, you are able to reduce your level of monitoring and controlling as well as we are able to make cost-efficient offers due to in-house processing. Additionally, you can benefit from a personalized project handling, which is adapted to your individual needs. This personalization also has the benefit of a high degree of flexibility concerning the design of your order.

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