

316 / 316L Premium+

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Premium+ is a service provided by Industeel allowing the delivery of annealed and pickled stainless steel plates within 4 weeks ex-mill after receipt of an order and an exhaustive material test certificate.

The 4 weeks lead-time applies to the first 50 tonnes of the order, the standard lead-time applies to the remaining.

316 / 316L Premium+ answers to the more stringent technical requirements.

This offer is the perfect solution to respond to the projects worldwide and for a wide range of technical.

CERTIFICATE

MATERIAL TEST CERTIFICATE ACCORDING TO EN 10204

3.1 for plates thickness = < 30 mm

3.2 TÜV for plates > 30mm

STANDARDS

> EURONORM: EN 10088.2 / EN 10088.4 / EN 10028.7

Double certification 1.4401 (X5CrNiMo17-12-2) / 1.4404 (X2CrNiMo17-12-2)

> ASTM/ASME: ASTM A240M / ASME SA240M

Double certification 316 / 316L

ADDITIONAL STANDARDS

CE marking EN 10088.4

AD2000-W2 / AD2000-W10

NACE MR 0175 - MR 0103 - ISO 15156 - ISO 17945

NORSOK M630 MDS-S01

Dimensional tolerances according to ISO 18286 for thickness and flatness

Surface condition according to EN 10163

Complementary informations:

T° of TTH and holding time mentioned on Material Test Certificate (MTC)

Specify on certificate: "Plate free of radioactivity» and "Hot rolled, annealed and pickled"

Food contact: (CE) N° 1935/2004 - FR Arrêté du 13/01/1976 - IT Decreto 11/11/2013 N° 140

PED 2014/68/EU marking

CERTIFICATE

CHEMICAL ANALYSIS (LADLE COMPOSITION)

According to standards: C, Mn, P, S, Si, Cu, Ni, Cr, Mo in %

+ Co, Al, B

+ Ferrite calculated according to Delong Diagram and ASTM E562/E1245

Example of chemical analysis report on certificate

	C%	Mn%	P%	S%	Si%	Cu%	Ni%	Cr%	Mo%	Nb%	Ti%	N%	Co%
Min							10.000	16.500	2.000				
Heat Analysis	0.025	1.878	0.0356	0.0008	0.248	0.336	10.038	16.989	2.029	0.009	0.002	0.0512	0.119
Max	0.030	2.000	0.0450	0.0150	0.750	0.750	13.000	18.000	2.500	0.100	0.100	0.1000	

POSITIVE MATERIAL IDENTIFICATION (PMI)

Conformity check on each product

MECHANICAL TESTING

According to standards

Tensile test: Rp0.2, Rp1.0, Rm, El%,

Hardness: HB, HRC < 22, KV according to NACE

Charpy test at 20°C



CORROSION TESTING

According to EN ISO 3651-2 and ASTM A262-E

DELIVERY CONDITIONS

DIMENSIONAL PROGRAM

316 Premium +

Thickness (mm)	Width (mm)	Length (mm)	Thickness (mm)	Width (mm)	Length (mm)
			10	2500	6000
			12	2500	6000
15	2000	6000	15	2500	6000
20	2000	6000	20	2500	6000
25	2000	6000	25	2500	6000
30	2000	6000	30	2500	6000
35	2000	6000	35	2500	6000
40	2000	6000	40	2500	6000
50	2000	6000	50	2500	6000
60	2000	6000	60	2500	6000

DIMENSIONAL TOLERANCES

316 Premium +

Thickness (mm)	Width (mm)	Length (mm)
According to ISO 18286	According to ISO 18286 Class A	According to ISO 18286 Class A

DELIVERY CONDITIONS

STRESS DIE STAMPING

↑ VGRF - tracking number

Plate number and its index - Heat number

316L Premium+

INK MARKING

Length x Width x Thickness

Plate number and its index - Heat Number

316L Premium + A/SA 240 316/316L 1.4401/1.4404

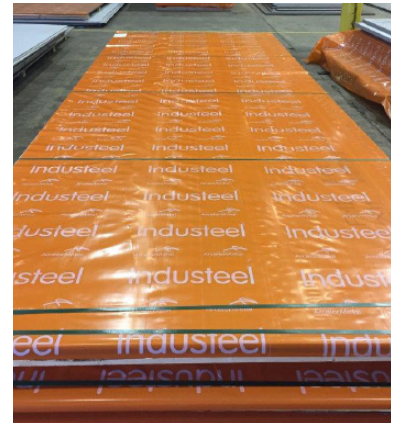
MADE IN BELGIUM BY INDUSTEEL E.U.

PACKAGING

As per Industeel specification «Packing Type B» + protection using a plastic film

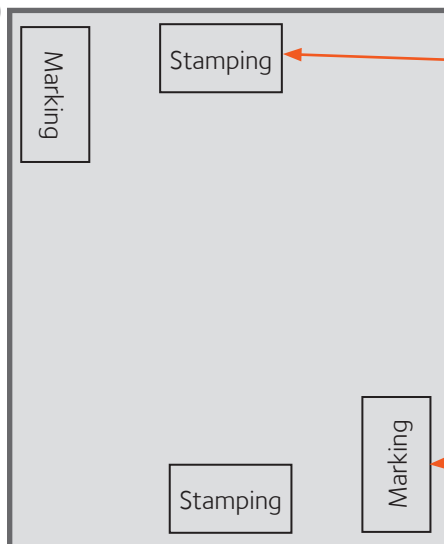
Maximum weight per packing: 5 tonnes - Rafters 80x100 mm

Same plate size and thickness per packing if item < 5 tonnes, otherwise plates grouped per size with different thicknesses.



LOCATION STAMPING & MARKING

On each plate (example)



VGRF 9063492
404665.001 82071
316L Premium +

12000 x 2500 x 12 mm
404665.001 82071
316L Premium + A/SA240 316 / 316L
1.4401/1.4404
MADE IN BELGIUM BY INDUSTEEL E.U

TRANSPORT BY TRUCK

Material covered by a tarpaulin

YOUR CONTACTS

Didier Paul

Tel. +33 6 19 28 29 31

didier.r.paul@arcelormittal.com

<http://industeel.arcelormittal.com>

Industeel Belgium

266 rue de Châtelet

B - 6030 Marchienne-au-Pont

Note - This technical data and information represents our best knowledge at the time of printing. However, it may be subject to some slight variations due to our ongoing research program on Stainless steel grades. We therefore suggest that information be verified at time of enquiry or order. Furthermore, in service, real conditions are specific for each application. The data presented here is only for the purpose of description, and may only be considered as guarantees when our company has given written formal approval.

All information in this brochure is for the purpose of information only. Industeel reserves the right to change its product range at any time without prior notice.

All Industeel facilities are ISO 9001, ISO 14001 and OHSAS 18001 certified.

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