A01
Tata Steel IJmuiden BV
Wenckebachstraat 1
1951 JZ Velsen Noord
Postbus 10000
1970 CA IJmuiden The Netherlands
Telephone: 0251-492110

Company Trade Register 34040351
E-mail: info.testing@tatasteeleurope.com

A07,A09 Reference
4500019883 SEVERAL
STERA 00020

A02
Inspection certificate 3.1, EN10204.

A05 Doc. nr
2020017548 00

B01.B02.B05.B04.B15
Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010.
1.00 G/M2/Side oiled.
Mill edges.

Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.14/-0.14 mm).

TATA STEEL

Z04

A06 Customer/Consignee
NAANTALI STEEL SERVICE CENTRE OY
RAUTAKATU 5

21110 NAANTALI

FINLAND

A08 Order nr.
54687 B

A11 Dispatch note
61518

A10 Transport
ANKIE

B09.B10.B11 Dimensions
1500 mm X 4.00 mm

C10-C29 TENSILE TEST | HARD-NESS | C40.C60.C65 IMPACT TEST AND OTHER TESTS

B07 PROD.-IDENT	B15 MASS kg	B08 NR	B07 CAST NR.		C01	C01/C02	C10	B05	C03 Temp °C	C11 R_{eH} MPa	C11 R_{eL} MPa	C11 $R_{p0.2}$ MPa	C12 R_m MPa	C15 A %	C15 A %	C16 R_{eH}/R_m %	C17 r-value	C18 n-value	C52	C01/C02	C10	B05	C41 mm	C40.C60.C65	C03 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C45 mean	C95 ASTM E-112
6026271	14040	1	N9455		32	1L	P		+ 20	393			474	31.5		83														
6026272	14360	1	"																											
6028651	11740	1	N9903		32	1L	P		+ 20	419			482	30.0		87														
6028652	11960	1	"																											
6028641	11620	1	"		32	1L	P		+ 20	405			482	33.0		84														
6028642	11920	1	"																											
6027871	14800	1	N9906		32	1L	P		+ 20	407			496	30.0		82														
6027872	14860	1	"																											
60278612	11720	1	N9909		32	1L	P		+ 20	393			478	31.0		82														
6027862	14220	1	"																											
TOTAL	131240	10																												

C71-C92 CHEMICAL COMPOSITION in %

B07 CAST NR.	B07 PROD.-IDENT	C71 C	C72 Mn	C75 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb	C82 V	C85 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eql
N9455		.069	0.500	.013	.005	0.010	0.029	.027	0.031	0.024	.003	.025	.002	.0028	.0000		0.027	.004	.001	.163
N9903		.068	0.498	.012	.005	0.009	0.029	.026	0.032	0.026	.003	.027	.002	.0028	.0000		0.028	.003	.001	.162
N9906		.076	0.499	.015	.004	0.012	0.029	.021	0.037	0.022	.003	.028	.002	.0024	.0000		0.028	.002	.001	.170
N9909		.069	0.504	.012	.003	0.020	0.033	.015	0.021	0.016	.002	.026	.002	.0039	.0001		0.031	.002	.001	.160

C44 1: J/cm² 2: J 3: Later. exp. (mm) 4: Contraction (%) 5: Shear area (%)

C01 1:1=Top 2:1=Edge 2=Middle 3=Middle 3=Bottom

C01 C02 L=Longitudinal 1=Surface T=Transverse 2=Centre Z=in Thickn dir 3=¼ Surface D=in Diagonal dir

C10 P=prismatical C=cylindrical

C-eql: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

C79 STEELMAKING PROCESS: BO

C50 Buigproef/Bend test/Biegeversuch/Test de flexion : goed/good/gut/concluant

Z05

B06

A04

Z01 We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions

Z03
Stamp of the expert :

Z02
Tata Steel IJmuiden BV

ANDRE GILLEBAART
GM PRODUCTANALYSIS

IJMUIDEN, 15 FEBRUARI 2020