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

Company Trade Register 34044351
E-mail : info.testing@tatasteel.com

A07.A09 Reference
4500002787
11001473 00040

A02
Inspection certificate 3.1, EN10204.

B01.B02.B05.B04.B15

A03 Doc. nr
2018008211 00

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

A06 Customer/Consignee
NAANTALI STEEL SERVICE CENTRE OY
RAUTAKATU 5

21110 NAANTALI

FINLAND

Z04

A08 Order nr.
51068 D

A11 Dispatch note
80712

A10 Transport
DROGDENBANK

B09.B10.B11 Dimensions
1500 mm X 4.00 mm

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

B07 PROD.-IDENT	B15 MASS kg	B08 NR	B07 CAST NR.		C01	C01/C02	C10	B05	C05 Temp °C	C11 R_{eH} MPa	C11 R_{eL} MPa	C11 R_p MPa	C12 R_m MPa	C13 A %	C13 A %	C16 R_{eH}/R_m %	C17 r-value	C18 n-value	C52	C01/C02	C10	B05	C41 mm	C40.C60.C65	C05 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean	C95 ASTM E-112
756930	10440	1	K0332		32	1L	P		+ 20	394			475	31.0		83													
756931	10420	1	"																										
756932	10290	1	"																										
756873	10460	1	K0725		32	1L	P		+ 20	385			477	31.0		81													
756875	10390	1	"																										
756876	10160	1	"																										
757245	10490	1	K0751		32	1L	P		+ 20	390			475	31.5		82													
757246	10420	1	"																										
757247	10350	1	"																										
757251	10550	1	K0754		32	1L	P		+ 20	393			474	32.0		83													
SUBTOTAL	103970	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	C83 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eql
K0332		.071	0.503	.017	.007	0.007	0.035	.009	0.021	0.016	.001	.026	.002	.0027	.0000		0.033	.001	.001	.161
K0725		.069	0.503	.012	.003	0.012	0.034	.010	0.019	0.014	.001	.024	.003	.0035	.0000		0.033	.001	.002	.159
K0751		.072	0.493	.016	.007	0.007	0.038	.011	0.021	0.014	.001	.026	.002	.0022	.0000		0.037	.002	.001	.161
K0754		.069	0.495	.013	.007	0.006	0.028	.012	0.018	0.014	.001	.026	.002	.0023	.0001		0.027	.002	.001	.157

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

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

C01 C02 L=Longitudinal T=Transverse Z=in Thickn dir S=¼ Surface D=in Diagonal dir

C10 P=prismatical C=cylindrical

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

C70 STEELMAKING PROCESS: BO

Z05 Stamp of the expert :

Z02
Tata Steel IJmuiden BV

SIMON BRAAM
MANAGER TESTING

IJMUIDEN, 23 JANUARI 2018

Z05 B06 A04

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

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A03 Doc. nr
2018008211 08

A08 Order nr.
51068 D

TATA STEEL

B09.B10.B11 Dimensions
1500 mm X 4.00 mm

C10-C29 TENSILE TEST

HARD-NESS C32

C40.C60.C65 IMPACT TEST AND OTHER TESTS

B07 PROD.-IDENT	B15 MASS kg	B08 NR	B07 CAST NR.		C01	C01/C02	C10	B05	C05 Temp °C	C11 R_{eH} MPa	C11 R_{eL} MPa	C11 R_p MPa	C12 R_m MPa	C15 A %	C15 A %	C16 R_{eH}/R_m	C17 r-value	C18 n-value	C32	C01/C02	C10	B05	C41 mm	C40.C60.C65	C05 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean	C95 ASTM E-112
757252	10520	1	K0754		32	1L	P		+ 20	393			474	32.0		83														
757253	10320	1	"																											
757248--	10558	1	"		32	1L	P		+ 20	391			474	33.0		82														
757249	10550	1	"																											
757250	10150	1	"																											
TOTAL	156068	15																												

C71-C92 CHEMICAL COMPOSITION in %

B07 CAST NR.	B07 PROD.-IDENT	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb	C82 V	C83 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eql
K0754		.069	0.495	.013	.007	0.006	0.028	.012	0.018	0.014	.001	.026	.002	.0023	.0001		0.027	.002	.001	.15

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

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

C70 STEELMAKING PROCESS: BO

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

SIMON BRAAM
MANAGER TESTING

IJMUIDEN, 23 JANUARI 2018