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

Company trade Register 34040551
E-mail: info.testing@tatasteeleurope.com

A07.A09 Reference
4500023452 NAANTALI STEEL SERVICE CENTRE OY
11008863 00010

A02
Inspection certificate 3.1, EN10204.

TATA STEEL

A05 Doc. nr
2020038050 00

B01.B02.B05.B04.B15
Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010.
1.00 G/M2/Side oiled.
Mill edges.
Impact test.
Suitable for: Part galvanising, Cutting into sheet.

Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.18/-0.18 mm).
PRODUCE AND TEST ACCORDING TO EN 10149-2

Z04

A06 Customer/Consignee
SERVICE CENTRE MAASTRICHT B.V.
B.U. FEIJEN
POSTBUS 10.000

1970 CA IJMUIDEN

NOORDHOLLAND

A08 Order nr.
58336 A

A11 Dispatch note
78487

A10 Transport
ALLADIN

B09.B10.B11 Dimensions
1500 mm X 8.00 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	C05 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	C05 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean	C95 ASTM E-112
604181	31940	1	P4716		32	1L	P		+ 20	459			529	28.0		87				1L	P	0	5.1	ISO-V	- 20	2	114	114	117	115	
604185	31760	1	P4810		32	1L	P		+ 20	454			541	28.5		84				1L	P	0	5.0	ISO-V	- 20	2	117	123	131	124	
604186	31780	1	"		32	1L	P		+ 20	454			530	28.5		86				1L	P	0	5.0	ISO-V	- 20	2	122	128	125	125	
604182	31760	1	P4812		32	1L	P		+ 20	441			525	27.5		84				1L	P	0	5.0	ISO-V	- 20	2	118	120	135	124	
604183	31780	1	P4816		32	1L	P		+ 20	464			538	29.0		86				1L	P	0	5.1	ISO-V	- 20	2	114	122	120	119	
604184	31780	1	P4821		32	1L	P		+ 20	451			535	28.5		84				1L	P	0	5.0	ISO-V	- 20	2	114	115	111	113	
TOTAL	190800	6																												

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	C85 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eq1
P4716		.064	1.317	.013	.003	0.016	0.034	.026	0.025	0.026	.006	.034	.003	.0043	.0001		0.032	.004	.001	.294
P4810		.064	1.307	.014	.002	0.028	0.027	.020	0.029	0.027	.005	.035	.003	.0041	.0000		0.026	.007	.001	.292
P4812		.061	1.333	.014	.004	0.022	0.030	.017	0.027	0.025	.004	.035	.004	.0038	.0000		0.029	.004	.002	.293
P4816		.065	1.338	.015	.004	0.021	0.045	.023	0.034	0.029	.007	.035	.003	.0040	.0001		0.043	.005	.001	.300
P4821		.061	1.340	.015	.005	0.020	0.041	.023	0.037	0.028	.006	.034	.004	.0044	.0001		0.039	.004	.002	.297

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

CD1 CD2 L=Longitudinal T=Transverse Z=in Thickn dir D=in Diagonal dir 1=Surface 2=Centre 3=¼ Surface

C10 P=prismatical C=cylindrical

C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

C70 STEELMAKING PROCESS: BO

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

Z03 Stamp of the expert :

Z02
Tata Steel IJmuiden BV

ANDRE GILLEBAART
GM PRODUCTANALYSIS

IJMUIDEN, 16 APRIL 2020

Z05

B06

A04

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