

AR1 Tata Steel IJmuiden BV
 Manckeboschstraat 1
 1951 JZ Velsen Noord
 Postbus 10000
 1700 CA IJmuiden, The Netherlands
 Telephone: 020-492110
 Company Trade Register: 54040551
 E-mail: info_testing@tatasteel-europe.com
 WWW Customer/ConsLine

AR2 Inspection certificate 3.1, EN10204.
 00010
 801.802.805.804.815

AR3 Doc. nr. 2021000205 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 +0.15/-0.15 mm).
 Country of melt and pour : The Netherlands.

AR4 Dispatch note
 65834
 410 Transport
 OSTBORG

AR5 Doc. nr. 2021000205 00
 NAANTALI STEEL SERVICE CENTRE OY
 RAUTAKATU 5
 21110 NAANTALI
 FINLAND

AR6 Order nr. 56442 A
 150 mm X 5 mm



AR7 AB9 REFERENCE
 4500033431
 11001475

AR8 Reference 150 mm X 5 mm
AR9 Dimensions 150 mm X 5 mm
AR10 Reference 150 mm X 5 mm

B07 PROD. IDENT	B08 MASS kg	B09 NR	B10 CAST NR.	B11 Temp °C	B12 R _{eH} MPa	B13 R _{eL} MPa	B14 R _{p0.2} MPa	B15 R _m MPa	B16 A %	B17 A %	B18 R _{eH} /R _m %	B19 r-value	B20 n-value	B21 Hardness	IMPACT TEST AND OTHER TESTS																											
															B22 34.5	B23 34.0	B24 34.0	B25 34.0	B26 83	B27 84	B28 82	B29 84	B30 83	B31 84	B32 82	B33 84	B34 83	B35 84	B36 82	B37 84	B38 83											
810414	10101	1	R8688	+ 20	383	383	464	464	34.5	34.5	83	83	83	83																												
810415A	9971	1	"	+ 20	395	395	473	473	34.0	34.0	84	84	84	84																												
810418	10341	1	"	+ 20	389	389	475	475	34.0	34.0	82	82	82	82																												
810419	10321	1	"	+ 20	395	395	473	473	34.0	34.0	84	84	84	84																												
810420	10191	1	"	+ 20	389	389	475	475	34.0	34.0	82	82	82	82																												
810368	10331	1	R8690	+ 20	389	389	475	475	34.0	34.0	82	82	82	82																												
810369	10351	1	"	+ 20	395	395	473	473	34.0	34.0	84	84	84	84																												
810370	10101	1	"	+ 20	395	395	473	473	34.0	34.0	84	84	84	84																												
810443	10131	1	R8700	+ 20	395	395	473	473	34.0	34.0	84	84	84	84																												
SUBTOTAL	100890	10																																								

B22 C	B23 Mn	B24 P	B25 S	B26 Si	B27 Al	B28 Cu	B29 Cr	B30 Ni	B31 Mo	B32 Nb	B33 V	B34 N	B35 B	B36 C-eq	B37 A1-Z0	B38 Sn	B39 Ti	CHEMICAL COMPOSITION in %																									
																		B40 C	B41 Mn	B42 P	B43 S	B44 Si	B45 Al	B46 Cu	B47 Cr	B48 Ni	B49 Mo	B50 Nb	B51 V	B52 N	B53 B	B54 C-eq											
0.075	0.489	0.015	0.005	0.007	0.029	0.007	0.024	0.021	0.001	0.024	0.003	0.033	0.0000	0.164	0.026	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
0.076	0.499	0.015	0.005	0.010	0.040	0.006	0.025	0.021	0.002	0.027	0.003	0.031	0.0000	0.167	0.039	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
0.069	0.484	0.014	0.007	0.011	0.037	0.007	0.019	0.020	0.001	0.026	0.003	0.033	0.0000	0.156	0.035	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

B40 1: J/cm² 4: Contraction (%)
B41 2: J 5: Shear area (%)
B42 3: Later. exp. (mm)

B43 C01 C02 C03 C04 C05 C06 C07 C08 C09
 1: Top 2: 1=Edge 1=Surface 2=Surface 3=Top 4=Bottom 5=Surface 6=Bottom 7=Top 8=Bottom 9=Surface 10=Bottom

B44 C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

B45 STEELMAKING PROCESS: BO Page 1 of 2
 Tata Steel IJmuiden BV
 JEFFREY FLEMING
 MGR. MECH. TESTING
 JEFFREY FLEMING

B46 Stamp of the expert :
 IJMUIDEN, 2 JANUARI 2021

B47 Buisproef/Bend test/Biegeversuch/Test de flexion : goed/good/gut/concluant
B48 OK

B49 We hereby confirm that we comply to the terms of our order
 acknowledgement and any agreed concessions
 01W4975E

401 Tata Steel IJmuiden BV Henkebechstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 E-mail: info.testing@tatasteel-europe.com 309-B10-B11 Dimensions	Inspection certificate S.l, EN10204.	A05 doc. nr 2021000205 00 A08 Order nr. 56442 A	TATA STEEL
1500 mm X 5 mm C10-C29		HARD-NESS C32 C07/C10 C08 C09 C20/C21 C22	
1500 mm X 5 mm C31 C07/C10 C08 C09 C20/C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39		TENSILE TEST B07 B08 B09 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28 B29 B30 B31 B32 B33 B34 B35 B36 B37 B38 B39 B40 B41 B42 B43 B44 B45 B46 B47 B48 B49 B50 B51 B52 B53 B54 B55 B56 B57 B58 B59 B60 B61 B62 B63 B64 B65 B66 B67 B68 B69 B70 B71 B72 B73 B74 B75 B76 B77 B78 B79 B80 B81 B82 B83 B84 B85 B86 B87 B88 B89 B90 B91 B92 B93 B94 B95 B96 B97 B98 B99 B100	
IMPACT TEST AND OTHER TESTS		C40-C55 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53 C54 C55	
CHEMICAL COMPOSITION in % Z15 Stamp of the expert :			
STEELMAKING PROCESS: B0 Page 2 of 2 Tata Steel IJmuiden BV JEFFREY FLEMING MGR. MECH. TESTING <i>Jeffrey Fleming</i> IJMUIDEN, 2 JANUARI 2021			

301 We hereby confirm that we comply to the terms of our order
 acknowledgement and any agreed concessions
 01M6576E 01M65911E