

AB1 Tata Steel IJmuiden BV
 Menckebachstraat 1
 Postbus 10000
 1970 CA IJmuiden The Netherlands
 Telephone: 0251-492110
 Company Trade Register 54040551
 E-mail: info.tasting@tatasteel.eu
AB2 Inspection certificate 3.1, EN10204.
AB3 SBA INTERIOR 00030
AB4 Hot rolled pickled, Coil, S355MC, YMPRESS WG S-01-2010.
 1.00 G/M2/Side oiled.
 Mill edges.
AB5 Dev. no. 2020017549 00
AB6 Customer/Consigne
 MAANTALI STEEL SERVICE CENTRE OY
 RAUTAKATU 5
 21110 MAANTALI
 FINLAND
AB7 Order nr. 54687 C
AB8 All Dispatch note 61518
AB9 ANKIE
AB10 Transport
AB11 TATA STEEL
AB12 Z04

AB13 Reference 4500019883
AB14 SEVERAL
AB15 Dimensions 1500 mm X 5.00 mm
AB16 IMPACT TEST AND OTHER TESTS
AB17 HARDNESS
AB18 TENSILE TEST
AB19 CHEMICAL COMPOSITION in %
AB20 C50 Buigproef/Bend test/Biegeversuch/Test de flexion : goed/good/gut/concluant
AB21 Stamp of the expert :
AB22 Tata Steel IJmuiden BV
AB23 ANDRE GILLEBAART
 GM PRODUCTANALYSIS
AB24 IJMUIDEN, 15 FEBRUARI 2020
AB25 01W675E 01W691TS

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 C52	B22 C50, C50.5	B23 C51	B24 mm	B25 Temp °C	B26 C44	B27 ind. ind.	B28 C42	B29 C43	B30 mean	B31 ASTM E-112
6027382	14960	1	N9904	+ 20	413			480	32.0		86													
6027392	15100	1	"	+ 20	389			466	36.5		83													
6027351	14860	1	N9906	+ 20	408			480	31.5		85													
6027362	14920	1	"	+ 20	417			488	30.5		85													
TOTAL	74820	5																						

B37 CAST NR.	B38 PROD. IDENT	B39 C	B40 Mn	B41 P	B42 S	B43 Si	B44 Al	B45 Cu	B46 Cr	B47 Ni	B48 Mo	B49 Nb	B50 V	B51 N	B52 B	B53 C-eq	B54 AI-Z0	B55 Sn	B56 Ti	B57 C-eq1	B58 C59	B59 C59	B60 C59	B61 C-eq1	
																									B62 C59
N9904		.065	0.506	0.14	0.006	0.012	0.032	0.031	0.026	0.003	0.026	0.026	0.003	0.024	0.000	0.001	0.030	0.003	0.001	0.161					
N9906		+076	0.499	0.15	0.004	0.012	0.029	0.021	0.022	0.003	0.028	0.028	0.002	0.024	0.000	0.001	0.028	0.002	0.001	0.170					

B64 1: J/cm²
 2: Later. exp. (mm)
 3: Contraction (%)
 4: Shear area (%)
B65 1: Top
 2: Edge
 3: Middle
 4: Bottom
B66 C01
 C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15
B67 C01
 1: Longitudinal
 2: Transverse
 3: Surface
 4: Centre
 5: Surface
 6: In Diagonal dir
B68 P=Prismatic
 C=Cylindrical
B69 STEELMAKING PROCESS: B0 Page 1 of 1
B70 Stamp of the expert :
B71 Tata Steel IJmuiden BV
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 GM PRODUCTANALYSIS
B73 IJMUIDEN, 15 FEBRUARI 2020
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Z01 We hereby confirm that we comply to the terms of our order
 acknowledgement and any agreed concessions
Z02