

TATA STEEL

402 Inspection certificate 3.1, EN10204.

401 Tata Steel IJmuiden BV
 Henckebachstraat 1
 1951 JZ Velsen Noord
 Postbus 10000
 1970 CA IJmuiden The Netherlands
 Telephone: 0251-492110
 Company Trade Register 54940351
 E-mail: info.testing@tatasteel.europa.com

403 SBA INTERIOR 00020

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405 Dec. nr. 2020017558 00

406 Customer/EmisInnee
 NAAANTALI STEEL SERVICE CENTRE OY
 RAUTAKATU 5
 21110 NAAANTALI
 FINLAND

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 4500022109
 11001673

408 Order nr. 56799 B

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 1500 mm X 4.00 mm

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 All Dispatch note
 61518

411
 All Dispatch note
 ANKIE

412
 Inspection certificate 3.1, EN10204.

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TENSILE TEST											IMPACT TEST AND OTHER TESTS																							
E10-E29											E40-E60.665																							
PROD. IDENT	MASS kg	NR	CAST NR.	Temp °C	R _{eh} MPa	R _{eh} MPa	R _{p0.2} MPa	R _m MPa	A %	A %	R _{eh} /R _m %	r-value	n-value	532	E40-E60.665	Temp °C	E40-E60.665	mm	E44	E42	ind. ind.	E42	ind. ind.	E42	mean	E43	mean	E43	ASTM E-112					
738865	10511	1	P2707	+ 20	391		477	33.5			82																							
738866	10461	1	"																															
738867	10251	1	"																															
TOTAL																																		

CHEMICAL COMPOSITION in %																	STEELMAKING PROCESS:																			
E71-E92																	E80																			
CAST NR.	PROD IDENT	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Nb	V	N	B	C-eq	Al-20	Sn	Ti	C-eq1	644	1: J/cm ²	2: Later. exp. (mm)	4: Contraction (%)	5: Shear area (%)											
P2707		0.071	0.593	0.009	0.006	0.008	0.036	0.018	0.023	0.023	0.003	0.024	0.002	0.0043	0.000	0.001	0.037	0.004	-0.011	-1.63																
																	C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15																			
																	C01: C01: Longitudinal 1=Surface 2=Middle 3=Bottom C02: C02: Transverse 1=Surface 2=Middle 3=Bottom C03: C03: 45° Surface 1=Surface 2=Middle 3=Bottom C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15																			
																	670 STEELMAKING PROCESS: 80 Page 1 of 1																			

Stamp of the expert :

Tata Steel IJmuiden BV

ANDRE GILLEBAART
 GM PRODUCTANALYSIS

IJMUIDEN, 15 FEBRUARI 2020

01M675E 01M691TS

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