


A01 Tata Steel IJmuiden BV Wenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail: info.testing@tatasteeleurope.com	A03 Doc nr. 2021036619 00		A04 
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500038449 11001473 00030	A08 Order nr. 59868 C	
	B01,B02,B03,B04,B15 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010. 1.00 C/M2/Side oiled. Mill edges. Tolerance EN 10051 : 2010 (S) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.14/-0.14 mm). Country of Melt and Pour : Netherlands		
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5 21110 NAANTALI FINLAND	C70 STEEL MAKING PROCESS: BO		
	B09,B10,B11 Dimensions 1500 mm X 4 mm		
	B13 Total Mass KG 40544	B08 Total NR. 4	
	A11 Dispatch Note 12604	A10 Transport EMMA	

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

PROD-IDENT: 834618	MASS KG: 10001	NR: 1	CAST NR: S3447	B07,B08,B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 392	Rm (MPa) 484	A (%) 32.5	ReH/Rm (%) 81

PROD-IDENT: 834617	MASS KG: 10171	NR: 1	CAST NR: S3447	B07,B08,B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 392	Rm (MPa) 484	A (%) 32.5	ReH/Rm (%) 81

PROD-IDENT: 834616	MASS KG: 10221	NR: 1	CAST NR: S3447	B07,B08,B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 392	Rm (MPa) 484	A (%) 32.5	ReH/Rm (%) 81

PROD-IDENT: 833830	MASS KG: 10151	NR: 1	CAST NR: S0988	B07,B08,B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 386	Rm (MPa) 475	A (%) 34.0	ReH/Rm (%) 81

CHEMICAL COMPOSITION in %											
B07 CAST NR.	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb
S3447	0.074	0.506	0.015	0.006	0.010	0.036	0.008	0.022	0.019	0.002	0.026
S0988	0.069	0.493	0.009	0.004	0.008	0.054	0.008	0.020	0.018	0.001	0.025
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eql				
S3447	0.003	0.0024	0.0000	0.001	0.001	0.035	0.166				
S0988	0.002	0.0028	0.0000	0.001	0.001	0.052	0.158				

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

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

Tata Steel IJmuiden BV

Jeffrey Flemming
Manager Mechanical Testing
IJmuiden, 27 March 2021

Jeffrey Flemming

Page 1 of 1 Z01,202

A01 Tata Steel IJmuiden BV Wenkebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail: info.testing@tatasteeleurope.com	A03 Doc nr. 2021036608 00	A04 TATA STEEL
	A02 Inspection certificate 3.1, EN10204.	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5 21110 NAANTALI FINLAND	A07, A09 Reference 4500038830 11001473 00010	A08 Order nr. 50065 A
	B01,B02,B03,B04,B15 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). Country of Melt and Pour : Netherlands	
		C70 STEEL MAKING PROCESS: BO
		B09,B10,B11 Dimensions 1500 mm X 4 mm
		B13 Total Mass KG 30463
		B08 Total NR. 3
		A11 Dispatch Note 12604
		A10 Transport EMMA

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

PROD-IDENT: 830417 MASS KG: 10141 NR: 1 CAST NR: S3452 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 382	Rm (MPa) 476	A (%) 34.0	ReH/Rm (%) 80

PROD-IDENT: 830415 MASS KG: 10251 NR: 1 CAST NR: S3452 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 382	Rm (MPa) 476	A (%) 34.0	ReH/Rm (%) 80

PROD-IDENT: 827783 MASS KG: 10071 NR: 1 CAST NR: S2657 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 374	Rm (MPa) 466	A (%) 34.5	ReH/Rm (%) 80

CHEMICAL COMPOSITION in %												
B07	CAST NR.	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb
	S3452	0.067	0.503	0.015	0.006	0.008	0.036	0.007	0.024	0.019	0.001	0.025
	S2657	0.070	0.492	0.015	0.006	0.006	0.033	0.005	0.021	0.016	0.001	0.023
	CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eql				
	S3452	0.002	.0030	.0001	0.001	0.001	0.035	.158				
	S2657	0.002	.0025	.0000	0.001	0.001	0.031	.158				

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

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Tata Steel IJmuiden BV

Jeffrey Flemming
Manager Mechanical Testing

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IJmuiden, 27 March 2021

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TENSILE TEST								C10-29
C01	C01/C02	C10	C03	Temp (°C)	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical		+20	ReH (MPa) 392	Rm (MPa) 484	A (%) 32.5	ReH/Rm (%) 81

PROD-IDENT: 834617 MASS KG: 10171 NR: 1 CAST NR: S3447 B07, B08, B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	Temp (°C)	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical		+20	ReH (MPa) 392	Rm (MPa) 484	A (%) 32.5	ReH/Rm (%) 81

PROD-IDENT: 834616 MASS KG: 10221 NR: 1 CAST NR: S3447 B07, B08, B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	Temp (°C)	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical		+20	ReH (MPa) 392	Rm (MPa) 484	A (%) 32.5	ReH/Rm (%) 81

PROD-IDENT: 833830 MASS KG: 10151 NR: 1 CAST NR: S0988 B07, B08, B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	Temp (°C)	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical		+20	ReH (MPa) 386	Rm (MPa) 475	A (%) 34.0	ReH/Rm (%) 81

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	CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eq1				
	S3447	0.003	0.0024	0.0000	0.001	0.001	0.035	.166				
	S0988	0.002	0.0028	0.0000	0.001	0.001	0.052	.158				

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

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Page 1 of 1 Z01, Z02