

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. 2021075863 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 4500043398 11001475	A08 Order nr. 53133 A	C70 STEEL MAKING PROCESS: BO
	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 +0.15/-0.15 mm). Country of Melt and Pour : Netherlands		B09, B10, B11 Dimensions 1500 mm X 5 mm
			B13 Total Mass KG 73475
		A11 Dispatch Note 43733	A10 Transport RUYTER

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

PROD-IDENT: 861681	MASS KG: 10291	NR: 1	CAST NR: S9905	B07, B08, B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)	
Bottom Middle	Surface Longitudinal	Prismatical	+20	389	467	31.5	83

PROD-IDENT: 860932	MASS KG: 11779	NR: 1	CAST NR: S9904	B07, B08, B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)	
Bottom Middle	Surface Longitudinal	Prismatical	+20	400	481	31.0	83

PROD-IDENT: 860931	MASS KG: 11640	NR: 1	CAST NR: S9904	B07, B08, B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)	
Bottom Middle	Surface Longitudinal	Prismatical	+20	400	481	31.0	83

PROD-IDENT: 860655	MASS KG: 13478	NR: 1	CAST NR: S9911	B07, B08, B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)	
Bottom Middle	Surface Longitudinal	Prismatical	+20	391	470	31.0	83

PROD-IDENT: 860654	MASS KG: 13508	NR: 1	CAST NR: S9911	B07, B08, B13			
TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)	
Bottom Middle	Surface Longitudinal	Prismatical	+20	391	470	31.0	83

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

Jeffrey Flemming

IJmuiden, 2 July 2021

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	A07, A09 Reference 4500043398 11001475 00010	A08 Order nr. 53133 A	

PROD-IDENT: 860554 MASS KG: 12779 NR: 1 CAST NR: S9904 B07,B08,B13

TENSILE TEST C10-29

C01	C01/C02	C10	C03 Temp (°C)	C11 R _{0.2} (MPa)	C12 R _m (MPa)	C13 A (%)	C16 R _{0.2} /R _m (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396	480	30.5	83

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
S9905	0.069	0.492	0.013	0.006	0.011	0.032	0.027	0.035	0.029	0.005	0.025
S9904	0.074	0.512	0.018	0.006	0.010	0.032	0.024	0.039	0.032	0.005	0.025
S9911	0.066	0.497	0.013	0.006	0.009	0.026	0.030	0.033	0.033	0.004	0.025
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al ₂ O ₃	C88 C-eq1				
S9905	0.003	.0027	.0000	0.001	0.002	0.031	.163				
S9904	0.005	.0032	.0000	0.001	0.002	0.031	.173				
S9911	0.003	.0030	.0000	0.001	0.002	0.025	.161				

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

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