

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. 2021075870 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 4500043673 11001473 00030	A08 Order nr. 53440 C	C70 STEEL MAKING PROCESS: BO B09,B10,B11 Dimensions 1500 mm X 4 mm B13 Total Mass KG 63144 B08 Total NR. 6 A11 Dispatch Note 43733 A10 Transport RUYTER
	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		

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

PROD-IDENT: 861576	MASS KG: 10271	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	401	493	34.0	81

PROD-IDENT: 861415	MASS KG: 10321	NR: 1	CAST NR: S9899	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	394	482	34.0	82

PROD-IDENT: 861413	MASS KG: 10031	NR: 1	CAST NR: S9903	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	478	34.5	81

PROD-IDENT: 861412	MASS KG: 10321	NR: 1	CAST NR: S9903	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	478	34.5	81

PROD-IDENT: 861411	MASS KG: 10321	NR: 1	CAST NR: S9903	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	478	34.5	81

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, 2 July 2021

Jeffrey Flemming

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	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500043673 11001473 00030	A08 Order nr. 53440 C	

PROD-IDENT: 861410 MASS KG: 11879 NR: 1 CAST NR: S9898 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	403	484	34.0	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
	S9904	0.074		0.512		0.018		0.006		0.010		0.032		0.024		0.039		0.032		0.005		0.025	
	S9899	0.069		0.500		0.012		0.005		0.008		0.032		0.025		0.030		0.029		0.003		0.026	
	S9903	0.065		0.499		0.012		0.006		0.009		0.032		0.038		0.033		0.032		0.004		0.026	
	S9898	0.069		0.518		0.012		0.006		0.007		0.032		0.019		0.026		0.025		0.002		0.028	
	CAST NR.	C82	V	C83	N	C84	B	C85	Ti	C86	Sn	C87	Al_2O	C88	C-eq1								
	S9904	0.005		.0032		.0000		0.001		0.002		0.031		.173									
	S9899	0.002		.0039		.0000		0.001		0.002		0.031		.163									
	S9903	0.002		.0038		.0000		0.001		0.002		0.031		.161									
	S9898	0.002		.0026		.0000		0.001		0.001		0.030		.164									

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

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