

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@tatasteel.eu	A03 Doc nr. 2021081261 00	A04 <b>TATA STEEL</b>
	A02 Inspection certificate 3.1, EN10204. A07, A09 Reference 4500044777 11001475 00010 A08 Order nr. 54615 A	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5  21110 NAANTALI FINLAND	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 Malt and Pour : Netherlands	C70 STEEL MAKING PROCESS: BO
	B09,B10,B11 Dimensions 1500 mm X 5 mm B13 Total Mass KG 65073 B08 Total NR. 6 A11 Dispatch Note 47494 A10 Transport EGON W	

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

C50

PROD-IDENT: 863993	MASS KG: 14068	NR: 1	CAST NR: S8328	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	399	477	31.5	84

PROD-IDENT: 863595	MASS KG: 10011	NR: 1	CAST NR: S8329	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	411	485	30.0	85

PROD-IDENT: 863594	MASS KG: 10401	NR: 1	CAST NR: S8329	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	411	485	30.0	85

PROD-IDENT: 863593	MASS KG: 10401	NR: 1	CAST NR: S8329	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	411	485	30.0	85

PROD-IDENT: 861687	MASS KG: 9911	NR: 1	CAST NR: S9907	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	398	479	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  
IJmuiden, 16 July 2021

*Jeffrey Flemming*

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PROD-IDENT: 861686      MASS KG: 10281      NR: 1      CAST NR: S9907      B07,B08,B13

**TENSILE TEST** C10-29

C01	C01/C02	C10	C03	C11	C12	C13	C16
			Temp (°C)	R <sub>0.2</sub> (MPa)	R <sub>m</sub> (MPa)	A (%)	R <sub>eH</sub> /R <sub>m</sub> (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	398	479	31.0	83

**CHEMICAL COMPOSITION in %**

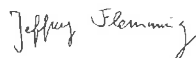
B07	CAST NR.	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb
	S8328	0.069	0.508	0.013	0.006	0.007	0.031	0.035	0.040	0.035	0.006	0.025
	S8329	0.074	0.499	0.013	0.006	0.013	0.034	0.034	0.041	0.036	0.006	0.028
	S9907	0.075	0.512	0.020	0.006	0.008	0.033	0.030	0.038	0.030	0.004	0.025
	CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al <sub>2O</sub>	C88 C-eq1				
	S8328	0.002	.0028	.0000	0.001	0.002	0.030	.168				
	S8329	0.003	.0033	.0000	0.001	0.002	0.033	.172				
	S9907	0.003	.0029	.0000	0.001	0.001	0.030	.173				

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

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