

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@tatasteel.eu.com	A03 Doc nr. 2021050274 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 4500040530 11001475 00010	A08 Order nr. 51232 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 +0.15/-0.15 mm). Country of Melt and Pour : Netherlands	
		C70 STEEL MAKING PROCESS: BO
		B09, B10, B11 Dimensions 1500 mm X 5 mm
		B13 Total Mass KG 30523
		B08 Total NR. 3
		A11 Dispatch Note 23226
		A10 Transport ROBIJN

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

PROD-IDENT: 842907	MASS KG: 10211	NR: 1	CAST NR: S5959	B07, B08, B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	403	482	33.5	84

PROD-IDENT: 842906	MASS KG: 10211	NR: 1	CAST NR: S5959	B07, B08, B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	403	482	33.5	84

PROD-IDENT: 840808	MASS KG: 10101	NR: 1	CAST NR: S5219	B07, B08, B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	404	482	33.0	84

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
S5959	0.071	0.503	0.013	0.005	0.011	0.035	0.027	0.034	0.032	0.006	0.028
S5219	0.063	0.472	0.014	0.004	0.014	0.032	0.022	0.039	0.034	0.007	0.027
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_20	C88 C-eql				
S5959	0.003	0.0023	0.0000	0.001	0.001	0.034	0.167				
S5219	0.003	0.0022	0.0000	0.001	0.004	0.030	0.155				
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, 1 May 2021

Jeffrey Flemming

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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@tatasteel.eu	A03 Doc nr. 2021050277 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 4500040961 11001475 00010	A08 Order nr. 51511 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 +0.15/-0.15 mm). Country of Melt and Pour : Netherlands	
		C70 STEEL MAKING PROCESS: BO
		B09, B10, B11 Dimensions 1500 mm X 5 mm
		B13 Total Mass KG 10011
		B08 Total NR. 1
		A11 Dispatch Note 23226
		A10 Transport ROBIJN

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

PROD-IDENT: 842908 MASS KG: 10011 NR: 1 CAST NR: S5959 B07, B08, B13

TENSILE TEST C10-29

C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C)	R _{eH} (MPa)	R _m (MPa)	A (%)	R _{eH} /R _m (%)
			+20	403	482	33.5	84

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
	S5959		0.071		0.503		0.013		0.005		0.011		0.035		0.027		0.034		0.032		0.006		0.028
	CAST NR.	C82	V	C83	N	C84	B	C85	Ti	C86	Sn	C87	Al_ZO	C88	C-eq1								
	S5959		0.003		.0023		.0000		0.001		0.001		0.034		.167								

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

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Manager Mechanical Testing

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IJmuiden, 1 May 2021

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