

Material Certificate List

Shipping Address		Information	
Ship-to-party	TAMMINIITY OY KETJUTIE 4 27710 KIIYLI FINLAND	Document Number	80492214
		Delivery Date	28.05.2021
		Sales Order Number	155268
		Sales Order Date	26.05.2021
		Purchase Order Number	006646
		Customer Number	201512
		Mode of Transportation	
		Delivery Term	DAP EURO
		Country of Origin	
		Country of Destination	FI
		From/Via	35A1
		Route	R00000
		Delivery Plant	35A1
		Certificate Receiver	myynti@tamminiity.fi
Buyer			
Sold to Party	TAMMINIITY OY KETJUTIE 4 27710 KIIYLI FINLAND		
Weight-Volume			
Total Gross Weight	14.809,00 KG		
Total Net Weight	14.809,00 KG		
Total Packages	6		

Shipping Details					
Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
10	13002041 Hot Rolled Pickled,Sheet, 5.00X1500.00X3000.00	4010500	2.500,00	2.495,00	2.495,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001269416	Material ID	834418		
20	13002042 Hot Rolled Pickled,Sheet, 6.00X1500.00X3000.00	4010600	2.500,00	2.565,00	2.565,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001266891	Material ID	6069682		
30	13001616 HRP,SHEET, 8.00X1500.00X3000.00	4010800	7.500,00	0,00	0,00 KG
Steel Grade	S355				
Batch		Material ID			
40	13001619 Hot Rolled Dry,Sheet, 15.00X1500.00X3000.00	4511500	2.500,00	2.120,00	2.120,00 KG
Steel Grade	S355				
Batch	0001191703	Material ID	2957030		
900001	13001616 Hot Rolled Pickled,Sheet,	4010800	7.500,00	2.543,00	2.543,00 KG

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Document Number	80492214
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Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
Steel Grade	8.00X1500.00X3000.00 S355				
Batch	0001243692	Material ID	607360		
900002	13001616 Hot Rolled Pickled, Sheet, 8.00X1500.00X3000.00	4010800	7.500,00	2.543,00	2.543,00 KG
Steel Grade	S355				
Batch	0001243688	Material ID	607360		
900003	13001616 Hot Rolled Pickled, Sheet, 8.00X1500.00X3000.00	4010800	7.500,00	2.543,00	2.543,00 KG
Steel Grade	S355				
Batch	0001243693	Material ID	607360		

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@tatastealeurope.com	A03 Doc nr. 2021036617 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 4500038449 11001475 00010	A08 Order nr. 59868 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 30563
		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: 834418	MASS KG: 10241	NR: 1	CAST NR: S3877	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 Relt/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396	471	34.0	84

PROD-IDENT: 834417	MASS KG: 10251	NR: 1	CAST NR: S3877	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 Relt/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396	471	34.0	84

PROD-IDENT: 833906	MASS KG: 10071	NR: 1	CAST NR: S3877	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 Relt/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	397	472	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
S3877	0.067	0.504	0.011	0.005	0.010	0.029	0.009	0.018	0.021	0.001	0.025
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eq1				
S3877	0.002	.0033	.0000	0.001	0.001	0.027	.157				
C-eq1: 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, Z02

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. 2021050281 00		A04 
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500033890 11001477 00040	A08 Order nr. 56444 D	
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. Impact test. Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.16/-0.16 mm). Country of Melt and Pour : Netherlands		C70 STEEL MAKING PROCESS: BO
	B09,B10,B11 Dimensions 1500 mm X 6 mm		B13 Total Mass KG 15460
			B08 Total NR. 1
			A10 Transport ROBIJN
		A11 Dispatch Note 23226	

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

PROD-IDENT: 6069682 **MASS KG: 15460** **NR: 1** **CAST NR: R8302** **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	411	489	25.0	84

IMPACT TEST AND OTHER TESTS C40,C60,C65

C01	C01/C02	C10	C03 Temp °C	B05	C41 mm	C40,C60,C65	C44	C42 ind.	C42 ind.	C42 ind.	C43 mean
Bottom Middle	Surface Longitudinal	Prismatical	-20	0	5.0	ISO-V	J	117	137	123	126

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
	R8302	0.075	1.017	0.012	0.005	0.009	0.029	0.006	0.021	0.022	0.002	0.022
	CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eq1				
	R8302	0.003	.0026	.0000	0.001	0.001	0.028	.252				

C-eq1: 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



TATA STEEL

Tata Steel IJmuiden BV
 Winkelschiedstraat 1
 1970 EA IJmuiden the Netherlands
 Telephone: 021-492110
 Company Trade Register 54640331
 E-mail: info-testing@tatasteel.europa.com

MAANTALI
 5500001080/01
 Inspection certificate 3.1, EN10204.
 801.802.803.804.815

2021013505 00
 805 Desc. nr
 Hot rolled pickled, Coil, S355MC, YMPRESS WG S-01-2010.
 1.00 G/M2/Side oiled.
 Mill edges.
 Impact test.
 Suitable for: Part galvanising, Cutting into sheet.
 Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.18/-0.18 mm).
 PRODUCE AND TEST ACCORDING TO EN 10149-2
 Country of melt and pour : The Netherlands.

SERVICE CENTRE MAASTRICHT B.V.
 B.U. FEIJEN
 POSTBUS 10.000
 1970 CA IJMUIDEN
 NOORDHOLLAND

57737 A
 810 Dispatch note
 74813
 810 Transport
 VAGRANT

TENSILE TEST										IMPACT TEST AND OTHER TESTS											
815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	
PROD. IDENT	MASS kg	NR	CAST NR.	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	
607362	31880	1	S0092	1500	8.00	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
607360	31860	1	S0094	32	1L	P	Temp °C	R _{eH} MPa	R _{eL} MPa	R _{p0.2} MPa	R _m MPa	A %	A %	R _{eh/Rm} %	r _m value	n-value	Temp °C	E40.E50.E55	E41	E42	
607359	31920	1	S0096	32	1L	P	+ 20	395	395	478	29.0	83	81	81	1L	P	0	5.0	150-V	- 20	2
							+ 20	395	385	489	28.5	81			1L	P	0	5.0	150-V	- 20	2
							+ 20	385		476	31.5	81			1L	P	0	5.0	150-V	- 20	2
TOTAL	95660	3																			

CHEMICAL COMPOSITION in %															STEELMAKING PROCESS:		Page		
836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855
C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Mb	V	N	B	C-eq	Al-ZO	Sn	Ti	C-eq1	C-eq2
0.074	0.987	0.010	0.004	0.030	0.007	0.022	0.019	0.002	0.024	0.002	0.002	0.039	0.000	0.028	0.028	0.001	0.001	0.245	0.246
0.071	1.009	0.011	0.006	0.010	0.037	0.008	0.022	0.019	0.002	0.024	0.002	0.040	0.000	0.036	0.036	0.001	0.001	0.246	0.235
0.064	0.979	0.014	0.004	0.011	0.029	0.008	0.024	0.018	0.002	0.021	0.003	0.036	0.000	0.028	0.028	0.002	0.001	0.245	0.235

856 1: J/cm²
 857 2: J
 858 3: Later. exp. (mm)
 859 4: Contraction (%)
 860 5: Shear area (%)

STEELMAKING PROCESS: BO Page 1 of 1
 Tata Steel IJmuiden BV
 Stamp of the expert :
 JEFFREY FLEMING
 MGR. MECH. TESTING
 IJMUIDEN, 2 FEBRUARI 2021

861 We hereby confirm that we comply to the terms of our order
 acknowledgement and any agreed concessions
 01R0675E 01R09715