

## Material Certificate List

Shipping Address		Information	
<b>Ship-to-party</b>	TAMMINIITY OY KETJUTIE 4 27710 KIIYLI FINLAND	<b>Document Number</b>	<b>80476562</b>
		<b>Delivery Date</b>	<b>04.05.2021</b>
		Sales Order Number	152023
		Sales Order Date	30.04.2021
		Purchase Order Number	006539
<b>Buyer</b>		Customer Number	201512
		Mode of Transportation	
<b>Sold to Party</b>	TAMMINIITY OY KETJUTIE 4 27710 KIIYLI FINLAND	Delivery Term	DAP EURA
		Country of Origin	
		Country of Destination	FI
		From/Via	35A1
		Route	R00000
<b>Weight-Volume</b>		Delivery Plant	35A1
<b>Total Gross Weight</b>	9.550,00 KG	Certificate Receiver	myynti@tamminiity.fi
<b>Total Net Weight</b>	9.550,00 KG		
<b>Total Packages</b>	4		

### Shipping Details

Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
10	13002041 HRP,SHEET, 5.00X1500.00X3000.00	4010500	5.000,00	0,00	0,00 KG
Steel Grade	YMPRESS S355 MC	Material ID			
Batch					
20	13002042 Hot Rolled Pickled,Sheet, 6.00X1500.00X3000.00	4010600	2.500,00	2.580,00	2.580,00 KG
Steel Grade	YMPRESS S355 MC	Material ID	824681		
Batch	0001216530				
30	13001619 Hot Rolled Dry,Sheet, 15.00X1500.00X3000.00	4511500	2.500,00	2.120,00	2.120,00 KG
Steel Grade	S355	Material ID	2957030		
Batch	0001175134				
900001	13002041 Hot Rolled Pickled,Sheet, 5.00X1500.00X3000.00	4010500	5.000,00	2.510,00	2.510,00 KG
Steel Grade	YMPRESS S355 MC	Material ID	828164		
Batch	0001220389				
900002	13002041 Hot Rolled Pickled,Sheet,	4010500	5.000,00	2.340,00	2.340,00 KG

**Naantali Steel Service Centre Oy**

Rautakatu 5, 21110, Naantali, Finland

T: +358 (0)10 28 76 901, naantalissc@tatasteelurope.com

Reg. No. 2674812-1

## Material Certificate List

### Information

**Document Number** 80476562  
**Delivery Date** 04.05.2021

<b>Item</b>	<b>Material Description</b>	<b>Cust. Prod Code</b>	<b>Ordered Quantity</b>	<b>Delivered Quantity</b>	<b>Weight</b>
Steel Grade	5.00X1500.00X3000.00 YMPRESS S355 MC				
Batch	0001235381	Material ID	828160		

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. 2021027663 00	A04 <b>TATA STEEL</b>
	A02 Inspection certificate 3,1, EN10204.	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5  21110 NAANTALI FINLAND	A07, A09 Reference 4500035855 11001477  00040	A08 Order nr. 57614 D
	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: The Netherlands	
		C70 STEEL MAKING PROCESS: BO
		B09,B10,B11 Dimensions 1500 mm X 6 mm
		B13 Total Mass KG 29604
		B08 Total NR. 2
		A11 Dispatch Note 85051
		A10 Transport LINDBERG

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

PROD-IDENT: 824682      MASS KG: 14667      NR: 1      CAST NR: S2007      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	401	478	29.5	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	101	108	112	107

PROD-IDENT: 824681      MASS KG: 14937      NR: 1      CAST NR: S2007      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	401	478	29.5	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	101	108	112	107

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
S2007	0.069	0.999	0.014	0.006	0.007	0.033	0.007	0.021	0.017	0.002	0.023
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eql				
S2007	0.002	0.0021	0.0000	0.001	0.001	0.032	0.242				

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, 6 March 2021



**TATA STEEL**

412 Inspection certificate 3.1, EN10204.

417 Reference 450035562 11009646 NAANTALI 00060

418 Doc. nr 2021008801 00

419 Customer/Contractor SERVICE CENTRE MAASTRICHT B.V. B.U. FEIJEN POSTBUS 10.000

420 Order nr. 57493 D

421 Dispatch note 71983

422 C EST LA VIE

423 Hot rolled dry, Coil, S355MC, YMPRESS WG S:01-2010. 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 +0.22/-0.22 mm). PRODUCE AND TEST ACCORDING TO EN 10149-2 Country of melt and pour : The Netherlands.

TENSILE TEST		HARDNESS		IMPACT TEST AND OTHER TESTS																				
EN 10002	EN 10003	EN 10004	EN 10005	EN 10006	EN 10007	EN 10008	EN 10009	EN 10010	EN 10011	EN 10012	EN 10013	EN 10014	EN 10015	EN 10016	EN 10017	EN 10018	EN 10019	EN 10020						
1500	mm X	15	mm																					
PROD. IDENT	NR	CAST NR.	Temp °C	ReH MPa	Rel MPa	Rp0.2 MPa	Rm MPa	A %	A %	Rp/Rm %	r' value	n-value	C12	C13	C14	C15	C16	C17						
2957030	31960	1 S0505	+ 20			412	530	28.5		78			11	P	0	10.0	ISO-V	- 20	2	334	240	313	296	
TOTAL																								

CHEMICAL COMPOSITION in %														
EN 10002	EN 10003	EN 10004	EN 10005	EN 10006	EN 10007	EN 10008	EN 10009	EN 10010	EN 10011	EN 10012	EN 10013	EN 10014	EN 10015	EN 10016
C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Mb	Nb	V	N	B
0.057	1.515	0.013	0.006	0.011	0.040	0.006	0.021	0.016	0.003	0.034	0.002	0.002	0.0041	0.0000
EN 10017	EN 10018	EN 10019	EN 10020	EN 10021	EN 10022	EN 10023	EN 10024	EN 10025	EN 10026	EN 10027	EN 10028	EN 10029	EN 10030	EN 10031
C-eq1	Ti	Sn	Al-Zn	C	Al	Fe	Si	Ca	Mg	As	Sb	Pb	Bi	Se
0.283	0.001	0.001	0.037	0.001	0.000	0.002	0.0041	0.0000	0.000	0.000	0.000	0.000	0.000	0.000

424 1: J/cm<sup>2</sup> 4: Contraction (%) 5: Shear area (%)

2: J 3: Later. exp. (mm)

EN 10001 1: Top 2: Middle 3: Bottom

EN 10002 1: Surface 2: Centre 3: Surface with diameter

EN 10003 1: Prismatic 2: Cylindrical

EN 10004 C-eq: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

EN 10005 STEELMAKING PROCESS: BO Page 1 of 1

EN 10006 Stamp of the expert :

EN 10007 Tata Steel IJmuiden BV

EN 10008 JEFFREY FLEMING MGR. MECH. TESTING

EN 10009 IJMUIDEN, 23 JANUARI 2021

EN 10010 We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions

EN 10011 01M49715

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@tatasteeleurope.com	A03 Doc nr. 2021036609 00	A04 <b>TATA STEEL</b>
	A02 Inspection certificate 3.1, EN10204.	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5  21110 NAANTALI FINLAND	A07, A09 Reference 4500039343 11001475  00010	A08 Order nr. 50382 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: 830435	MASS KG: 10281	NR: 1	CAST NR: S3438	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 389	Rm (MPa) 475	A (%) 34.0	ReH/Rm (%) 82

PROD-IDENT: 830434	MASS KG: 10291	NR: 1	CAST NR: S3438	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 389	Rm (MPa) 475	A (%) 34.0	ReH/Rm (%) 82

PROD-IDENT: 828164	MASS KG: 9991	NR: 1	CAST NR: S2659	B07,B08,B13			
TENSILE TEST				C10-29			
C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 396	Rm (MPa) 476	A (%) 34.5	ReH/Rm (%) 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
	S3438	0.068	0.500	0.020	0.004	0.011	0.037	0.005	0.024	0.020	0.002	0.025
	S2659	0.069	0.490	0.010	0.006	0.007	0.033	0.005	0.017	0.017	0.001	0.027
	CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eql				
	S3438	0.003	0.0015	0.0000	0.001	0.001	0.035	0.159				
	S2659	0.002	0.0028	0.0000	0.001	0.000	0.032	0.156				

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

*Jeffrey Flemming*

IJmuiden, 27 March 2021

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. 2021027660 00	A04 <b>TATA STEEL</b>
	A02 Inspection certificate 3.1, EN10204.	
A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5  21110 NAANTALI FINLAND	A07, A09 Reference 4500035855 11001475  00010	A08 Order nr. 57614 A
	B01, B02, B03, B04, B15 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010, 1.00 g/m <sup>2</sup> /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: The Netherlands	
		C70 STEEL MAKING PROCESS: BO
		B09, B10, B11 Dimensions 1500 mm X 5 mm
		B13 Total Mass KG 108005
		B08 Total NR. 10
		A11 Dispatch Note 85051
		A10 Transport LINDBORG

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

C50

PROD-IDENT: 828163	MASS KG: 10301	NR: 1	CAST NR: S2659	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	396	476	34.5	83

PROD-IDENT: 828162	MASS KG: 10311	NR: 1	CAST NR: S2659	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	396	476	34.5	83

PROD-IDENT: 828161	MASS KG: 10051	NR: 1	CAST NR: S2659	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	473	34.5	83

PROD-IDENT: 828160	MASS KG: 10291	NR: 1	CAST NR: S2659	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	473	34.5	83

PROD-IDENT: 828159	MASS KG: 10301	NR: 1	CAST NR: S2659	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	473	34.5	83

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Tata Steel IJmuiden BV

Jeffrey Flemming  
Manager Mechanical Testing  
IJmuiden, 6 March 2021

*Jeffrey Flemming*

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. 2021027660 00		A04  <b>TATA STEEL</b>
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500035855 11001475 00010	A08 Order nr. 57614 A	

PROD-IDENT: 828158      MASS KG: 10041      NR: 1      CAST NR: S2657      B07,B08,B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	C11	C12	C13	C16	
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 370	Rm (MPa) 461	A (%) 35.5	ReH/Rm (%) 80	

PROD-IDENT: 828157      MASS KG: 10291      NR: 1      CAST NR: S2657      B07,B08,B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	C11	C12	C13	C16	
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 370	Rm (MPa) 461	A (%) 35.5	ReH/Rm (%) 80	

PROD-IDENT: 828155      MASS KG: 10301      NR: 1      CAST NR: S2657      B07,B08,B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	C11	C12	C13	C16	
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 370	Rm (MPa) 461	A (%) 35.5	ReH/Rm (%) 80	

PROD-IDENT: 821543      MASS KG: 12869      NR: 1      CAST NR: S0538      B07,B08,B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	C11	C12	C13	C16	
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 382	Rm (MPa) 468	A (%) 35.0	ReH/Rm (%) 82	

PROD-IDENT: 821542      MASS KG: 13248      NR: 1      CAST NR: S0538      B07,B08,B13

TENSILE TEST								C10-29
C01	C01/C02	C10	C03	C11	C12	C13	C16	
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C) +20	ReH (MPa) 382	Rm (MPa) 468	A (%) 35.0	ReH/Rm (%) 82	

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
	S2659	0.069	0.490	0.010	0.006	0.007	0.033	0.005	0.017	0.017	0.001	0.027
	S2657	0.070	0.492	0.015	0.006	0.006	0.033	0.005	0.021	0.016	0.001	0.023
	S0538	0.080	0.509	0.012	0.006	0.008	0.029	0.006	0.026	0.017	0.002	0.024
	CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eql				
	S2659	0.002	0.0028	0.0000	0.001	0.000	0.032	0.156				
	S2657	0.002	0.0025	0.0000	0.001	0.001	0.031	0.158				
	S0538	0.002	0.0032	0.0001	0.001	0.001	0.027	0.172				

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

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Tata Steel IJmuiden BV

Jeffrey Flemming  
Manager Mechanical Testing



IJmuiden, 6 March 2021