

## Material Certificate List

Shipping Address		Information	
<b>Ship-to-party</b>	TAMMINIITY OY KETJUTIE 4 27710 KÄRYLÄ FINLAND	<b>Document Number</b>	80485735
		<b>Delivery Date</b>	19.05.2021
		Sales Order Number	153788
		Sales Order Date	14.05.2021
		Purchase Order Number	006595
		Customer Number	201512
<b>Buyer</b>		Mode of Transportation	
<b>Sold to Party</b>	TAMMINIITY OY KETJUTIE 4 27710 KÄRYLÄ FINLAND	Delivery Term	DAP EURA
		Country of Origin	FI
		Country of Destination	FI
		From/Via	35A1
		Route	R00000
<b>Weight-Volume</b>		Delivery Plant	35A1
<b>Total Gross Weight</b>	7.633,00 KG	Certificate Receiver	myynti@tamminiitty.fi
<b>Total Net Weight</b>	7.633,00 KG		
<b>Total Packages</b>	3		

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	2.500,00	2.500,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001243992	Material ID	830435		
20	13002042 Hot Rolled Pickled,Sheet, 6.00X1500.00X3000.00	4010600	2.500,00	2.590,00	2.590,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001236706	Material ID	835136		
30	13001616 Hot Rolled Pickled,Sheet, 8.00X1500.00X3000.00	4010800	2.500,00	2.543,00	2.543,00 KG
Steel Grade	S355				
Batch	0001208819	Material ID	606852		

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.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 Temp (°C)	C11 ReH (MPa)	C12 Rm (MPa)	C13 A (%)	C16 ReH/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	389	475	34.0	82

PROD-IDENT: 830434	MASS KG: 10291	NR: 1	CAST NR: S3438	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	389	475	34.0	82

PROD-IDENT: 828164	MASS KG: 9991	NR: 1	CAST NR: S2659	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	396	476	34.5	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-eq1				
S3438	0.003	.0015	.0000	0.001	0.001	0.035	.159				
S2659	0.002	.0028	.0000	0.001	0.000	0.032	.156				
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*

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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.com	A03 Doc nr. 2021042315 00		A04  <b>TATA STEEL</b>
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500038449 11001477  00040	A08 Order nr. 59868 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 <b>STEEL MAKING PROCESS: BO</b>
	B09,B10,B11 Dimensions 1500 mm X 6 mm		B13 Total Mass KG 26126
			B08 Total NR. 2
			A10 Transport ANDREA

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

PROD-IDENT: 835136      MASS KG: 13078      NR: 1      CAST NR: S4086      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	417	497	29.0	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	108	112	109	110

PROD-IDENT: 835135      MASS KG: 13048      NR: 1      CAST NR: S4086      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	417	497	29.0	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	108	112	109	110

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
S4086	0.068	1.004	0.012	0.006	0.009	0.032	0.016	0.029	0.028	0.003	0.024
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eq1				
S4086	0.003	0.0020	0.0000	0.001	0.002	0.030	0.245				

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, 12 April 2021

*Jeffrey Flemming*

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Z04

**AD7-AD9 REFERENCE**  
 Tata Steel IJmuiden BV  
 Hendebechtstraat 1  
 4951 JZ Velsen Noord  
 45800S IJmuiden The Netherlands  
 Telephone: 020-492110  
 Company Trade Register 60468551  
 E-mail: info-testing@tatasteel-europe.com  
 AD8 Customer/consignor  
**SERVICE CENTRE MAASTRICHT B.V.**  
**B.U. FEIJEN**  
**POSTBUS 10.000**  
**1970 CA IJMUIDEN**  
**NOORDHOLLAND**

**AD7-AD9 REFERENCE**  
 5500001066 MDA  
 11008863  
 AD8 Doc. nr.  
 2021009576 00

Inspection certificate 3.1, EM10204.  
 6500033648  
 101.102.105.104.115  
 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010.  
 Mill edges.  
 Impact test.  
 Suitable for: Part galvanising, Cutting into sheet.  
 Tolerance EM 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.

**AD10 DISPATCH NO**  
 70387  
**AD10 Transport**  
 SEINPOST

TENSILE TEST										IMPACT TEST AND OTHER TESTS											
E10-E29										E40-E65											
PROD. IDENT	MASS kg	NR	CAST NR.	1500 mm X 8.00 mm	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21	E22	E23	E24	E25	
					R <sub>eL</sub> MPa	R <sub>eH</sub> MPa	R <sub>p0.2</sub> MPa	R <sub>m</sub> MPa	A %	A %	R <sub>eH</sub> /R <sub>m</sub> %	r-value	n-value	S32	E40/E41	E42	E43	E44	E45	E46	E47
					Temp °C	Temp °C	Temp °C	Temp °C	Temp °C	Temp °C	Temp °C	Temp °C	Temp °C	Temp °C	mm	mm	mm	mm	mm	mm	mm
606854	31880	1	R7792	32 1L P	+ 20	402	495	30.5	81	81	81	0	5.0	ISO-V	- 20	2	115	118	121	118	
606852	31880	1	"	32 1L P	+ 20	393	484	30.5	81	81	81	0	5.0	ISO-V	- 20	2	120	112	114	115	
606853	28860	1	R7794	32 1L P	+ 20	401	487	30.0	82	82	82	0	5.0	ISO-V	- 20	2	102	104	107	104	
606855	31840	1	R7799	32 1L P	+ 20	400	495	30.5	81	81	81	0	5.0	ISO-V	- 20	2	131	121	126	126	
<b>TOTAL</b>																					

CHEMICAL COMPOSITION in %																				
CAST NR.	PROD. IDENT	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Nb	V	N	B	C-eq	Al-ZO	Sn	Ti	C-eq1
E71	E72	E73	E74	E75	E76	E77	E78	E79	E80	E81	E82	E83	E84	E85	E86	E87	E88	E89	E90	E91
R7792		0.072	1.030	0.016	0.005	0.011	0.036	0.008	0.024	0.016	0.003	0.024	0.003	0.003	0.000	0.003	0.035	0.001	0.001	0.251
R7794		0.078	1.040	0.013	0.006	0.008	0.029	0.006	0.020	0.016	0.003	0.023	0.003	0.003	0.000	0.003	0.028	0.001	0.001	0.256
R7799		0.074	1.018	0.015	0.004	0.009	0.033	0.007	0.031	0.016	0.002	0.023	0.002	0.002	0.001	0.002	0.032	0.001	0.001	0.252

**E66** 1: J/cm<sup>2</sup>  
 2: Later. exp. (mm)  
 3: Contraction (%)  
 4: Shear area (%)

**E67** C01 C02 C03 C04 C05 C06 C07 C08 C09 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69 C70 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89 C90 C91 C92 C93 C94 C95 C96 C97 C98 C99 C100

**E70** STEELMAKING PROCESS: B0 Page 1 of 1  
 Tata Steel IJmuiden BV  
 Stamp of the expert :  
 JEFFREY FLEMING  
 MGR. MECH. TESTING  
 J.Fleming

**E91** IJMUIDEN, 25 JANUARI 2021

Z01 We hereby confirm that we comply to the terms of our order acknowledgment and any agreed concessions

DIW6275E