

Material Certificate List

Shipping Address		Information	
Ship-to-party	TAMMINIITY OY KETJUTIE 4 27710 KÄLYLÄ FINLAND	Document Number	80485735
		Delivery Date	19.05.2021
		Sales Order Number	153788
		Sales Order Date	14.05.2021
		Purchase Order Number	006595
		Customer Number	201512
Buyer		Mode of Transportation	
Sold to Party	TAMMINIITY OY KETJUTIE 4 27710 KÄLYLÄ FINLAND	Delivery Term	DAP EURA
		Country of Origin	FI
		Country of Destination	FI
		From/Via	35A1
		Route	R00000
Weight-Volume		Delivery Plant	35A1
Total Gross Weight	7.633,00 KG	Certificate Receiver	myynti@tamminiitty.fi
Total Net Weight	7.633,00 KG		
Total Packages	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 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. 2021036609 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 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 TATA STEEL
	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 STEEL MAKING PROCESS: BO
	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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AD7: AD9 REFERENCE
 5500001066 MDA
 11008863
 4500033648

AD7: AD9 REFERENCE
 Inspection certificate 3.1, EM10204.

AD5: Doc. no. 2021009576 00

AD5: Doc. no. 2021009576 00

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Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010.
 Mill edges.
 Impact test.

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).

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 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.

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 Country of melt and pour : The Netherlands.

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

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 B.U.- FEIJEN
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AD10 DISPATCH NOTE
 70387

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 70387

AD9: DIMENSIONS
 1500 mm X 8.00 mm

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 1500 mm X 8.00 mm

PROD.-IDENT	MASS kg	NR	CAST NR.	Temp °C	ReH MPa	R _{eL} MPa	R _{p0.2} MPa	R _m MPa	A %	A %	A %	R _{eH/R_m} %	r-value	n-value	Ti	Sn	C-eq	A1-ZO	B	N	V	Mo	Nb	Ni	Cr	Cu	Al	Si	S	P	Mn	C							
606854	31880	1	R7792	+ 20	402			495	30.5	81	81	81	0.035																										
606852	31880	1	"	+ 20	393			484	30.5	81	81	81	0.035																										
606853	28860	1	R7794	+ 20	401			487	30.0	82	81	81	0.032																										
606855	31840	1	R7799	+ 20	400			495	30.5	81	81	81	0.032																										

IMPACT TEST AND OTHER TESTS	Temp °C	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm				
Temp °C	- 20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
mm	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V	5.0	ISO-V
mm	11	118	121	118	115	118	121	118	120	112	114	115	102	104	107	104	102	104	107	104	131	121	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	

TOTAL 124460

TOTAL 124460

CHEMICAL COMPOSITION in %		HARDNESS		TENSILE TEST		IMPACT TEST AND OTHER TESTS																																					
AD8: PROD-IDENT	AD8: IDENT	AD8: C	AD8: Mn	AD8: P	AD8: S	AD8: Si	AD8: Al	AD8: Cu	AD8: Cr	AD8: Ni	AD8: Mo	AD8: Nb	AD8: V	AD8: N	AD8: B	AD8: C-eq	AD8: A1-ZO	AD8: Sn	AD8: Ti	AD8: C-eq1	AD8: C10	AD8: C11	AD8: C12	AD8: C13	AD8: C14	AD8: C15	AD8: C16	AD8: C17	AD8: C18	AD8: C19	AD8: C20	AD8: C21	AD8: C22	AD8: C23	AD8: C24	AD8: C25	AD8: C26	AD8: C27	AD8: C28	AD8: C29	AD8: C30	AD8: C31	AD8: C32

CHEMICAL COMPOSITION in %		HARDNESS		TENSILE TEST		IMPACT TEST AND OTHER TESTS																																					
AD8: PROD-IDENT	AD8: IDENT	AD8: C	AD8: Mn	AD8: P	AD8: S	AD8: Si	AD8: Al	AD8: Cu	AD8: Cr	AD8: Ni	AD8: Mo	AD8: Nb	AD8: V	AD8: N	AD8: B	AD8: C-eq	AD8: A1-ZO	AD8: Sn	AD8: Ti	AD8: C-eq1	AD8: C10	AD8: C11	AD8: C12	AD8: C13	AD8: C14	AD8: C15	AD8: C16	AD8: C17	AD8: C18	AD8: C19	AD8: C20	AD8: C21	AD8: C22	AD8: C23	AD8: C24	AD8: C25	AD8: C26	AD8: C27	AD8: C28	AD8: C29	AD8: C30	AD8: C31	AD8: C32

AD8: PROD-IDENT

AD8: PROD-IDENT

AD9: STEELMAKING PROCESS: B0 Page 1 of 1

AD9: STEELMAKING PROCESS: B0 Page 1 of 1

AD10: Stamp of the expert : Tata Steel IJmuiden BV

AD10: Stamp of the expert : Tata Steel IJmuiden BV

AD11: JEFFREY FLEMING MGR. MECH. TESTING

AD11: JEFFREY FLEMING MGR. MECH. TESTING

AD12: IJMUIDEN, 25 JANUARI 2021

AD12: IJMUIDEN, 25 JANUARI 2021

AD13: We hereby confirm that we comply to the terms of our order

AD13: We hereby confirm that we comply to the terms of our order

AD14: acknowledgment and any agreed concessions

AD14: acknowledgment and any agreed concessions

AD15: 01W0675E 01W069775E

AD15: 01W0675E 01W069775E