

Material Certificate List

Shipping Address		Information	
Ship-to-party	TAMMINIITTY OY KETJUTIE 4 27710 KÖYLIÖ FINLAND	Document Number	80462464
		Delivery Date	12.04.2021
		Sales Order Number	148623
		Sales Order Date	08.04.2021
		Purchase Order Number	006432
		Customer Number	201512
Buyer		Mode of Transportation	
Sold to Party	TAMMINIITTY OY KETJUTIE 4 27710 KÖYLIÖ FINLAND	Delivery Term	DAP EURA
		Country of Origin	
		Country of Destination	FI
		From/Via	35A1
		Route	R00000
		Delivery Plant	35A1
		Certificate Receiver	myynti@tamminiitty.fi
Weight-Volume			
Total Gross Weight	7.643,00 KG		
Total Net Weight	7.643,00 KG		
Total Packages	3		

Shipping Details

Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
10	13002040 Hot Rolled Pickled, Sheet, 4.00X1500.00X3000.00	4010400	2.500,00	2.585,00	2.585,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001193519	Material ID	815325		
20	13002041 Hot Rolled Pickled, Sheet, 5.00X1500.00X3000.00	4010500	2.500,00	2.515,00	2.515,00 KG
Steel Grade	YMPRESS S355 MC				
Batch	0001170452	Material ID	810444		
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	0001175105	Material ID	6068531		

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. 2021027655 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 4500033431 11001473 00030	ACB Order nr. 56442 C
	B01,B02,B03,B04,B15 Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-20.0. 1,00 G/M2/Side oiled. Mill edges. Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-# mm) Dev.Tol. (Thickness tolerance +0.14/-0.14 mm). Country of melt and pour: The Netherlands	
		C70 STEEL MAKING PROCESS: B0
		B09,B10,B11 Dimensions 1500 mm X 4 mm
		B13 Total Mass KG 62186
		B08 Total NR, 6
		A11 Dispatch Note 85051
		A10 Transport LINDBERG

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

PROD-IDENT: 815326 MASS KG: 10371 NR: 1 CAST NR: S0066 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
	Surface		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Longitudinal	Prismatical	+20	393	471	34.5	83

PROD-IDENT: 815325 MASS KG: 10381 NR: 1 CAST NR: S0066 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
	Surface		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Longitudinal	Prismatical	+20	393	471	34.5	83

PROD-IDENT: 815324 MASS KG: 10311 NR: 1 CAST NR: S0066 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
	Surface		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Longitudinal	Prismatical	+20	381	478	32.5	80

PROD-IDENT: 815323 MASS KG: 10421 NR: 1 CAST NR: S0066 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
	Surface		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Longitudinal	Prismatical	+20	381	478	32.5	80

PROD-IDENT: 815322 MASS KG: 10431 NR: 1 CAST NR: S0066 B07,B08,B13

TENSILE TEST C10-29							
C01	C01/C02	C10	C03	C11	C12	C13	C16
	Surface		Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
Bottom Middle	Longitudinal	Prismatical	+20	381	478	32.5	80

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

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@tatasteel.eu.com	A03 Doc nr. 2021027655 00		A04 TATA STEEL
	A02 Inspection certificate 3.1, EN10204		
	A07, A09 Reference 4500033431 11001473 00030	A08 Order nr. 56442 C	

PROD-IDENT: 813414 MASS KG: 10271 NR: 1 CAST NR: R9241 B07,B08,B13

TENSILE TEST C10-29

C01	C01/C02	C10	C03	C11	C12	C13	C16
Bottom Middle	Surface Longitudinal	Prismatical	Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)
			+20	393	478	34.0	82

CHEMICAL COMPOSITION in %

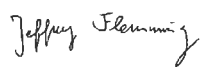
B07	CAST NR.	C71	C	C72	Mn	C73	P	C74	S	C75	Si	C76	Al	C77	Cu	C78	Cr	C79	Ni	C80	Mo	C81	Nb
	S0066		0.070		0.511		0.012		0.006		0.009		0.029		0.007		0.020		0.019		0.002		0.024
	R9241		0.074		0.487		0.012		0.006		0.009		0.026		0.008		0.018		0.017		0.001		0.026
	CAST NR.	C82	V	C83	N	C84	B	C85	Ti	C86	Sn	C87	Al_ZO	C88	C-eq1								
	S0066		0.002		0.0028		0.0000		0.001		0.001		0.027		.162								
	R9241		0.002		0.0026		0.0000		0.001		0.001		0.034		.161								

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

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Tata Steel IJmuiden BV

Jeffrey Flemming
Manager Mechanical Testing
IJmuiden, 6 March 2021



Tata Steel IJmuiden BV
 Handelsstraat 1
 1951 ZJ Walzen
 Postbus 10000
 1970 CA IJmuiden The Netherlands
 Telephone: 8251-492110
 E-mail: info.testing@tatasteelneurope.com

4500033431
 11001475
 00010

407: A09 Reference
 408: Order nr.
 56442 A

409: A10 Dimensions
 1500 mm X 5 mm

410: Transport
 OSTBORG

411: Dispatch note
 65834

412: Inspection certificate 3.1, EN10204.
 00010

413: Doc. nr.
 2021000205 00

414: Customer/Consumer
 MANTALI STEEL SERVICE CENTRE OY
 RAUTAKATU 5
 FINLAND

415: Product
 21110 MANTALI
 FINLAND

Hot rolled pickled, Coil, S355MC, YMPRESS WG S-01-2010.
 Hill 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.

PROD.-IDENT	MASS Kg	NR	CAST NR.	PER	Temp °C	R _H MPa	R _{el} MPa	R _{p0.2} MPa	R _m MPa	A %	A %	R _H /R _m %	r-value	n-value	HARDNESS	IMPACT TEST AND OTHER TESTS
810414	10101	1	R8688	52	1L P	383			464	34.5		83				
810415A	9971	1	"													
810415B	9071	1	"													
810418	10341	1	"	32	1L P	395			473	34.0		84				
810419	10321	1	"													
810420	10191	1	"													
810368	10331	1	R8690	32	1L P	389			475	34.0		82				
810369	10331	1	"													
810370	10101	1	"													
810443	10131	1	R8700	32	1L P	395			473	34.0		84				
SUBTOTAL	100890	10														

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
R8688		0.75	0.469	0.015	0.005	0.007	0.029	0.007	0.024	0.021	0.001	0.024	0.003	0.0033	0.0000	0.028	0.002	0.001	0.001	0.164
R8690		0.76	0.499	0.015	0.005	0.010	0.040	0.006	0.025	0.021	0.002	0.027	0.003	0.0031	0.0000	0.039	0.001	0.001	0.001	0.167
R8700		0.69	0.484	0.014	0.007	0.011	0.037	0.007	0.019	0.020	0.001	0.026	0.003	0.0033	0.0000	0.035	0.001	0.001	0.001	0.156

1: J/cm²
 2: Later. exp. (mm)
 3: Later. exp. (mm)
 4: Contraction (Z)
 5: Shear area (Z)

STEELMAKING PROCESS: B0 Page 1 of 2

Tata Steel IJmuiden BV

JEFFREY FLEMMING
 MGR. MECH. TESTING
 IJMUIDEN, 2 JANUARI 2021

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

DIN975E DIN9715



Tata Steel IJmuiden BV
 Wenckebachstraat 1
 Postbus 18000
 1970 CA IJmuiden The Netherlands
 Telephone: 0251-492110
 Company Trade Register 54048351
 E-mail: info_testing@tatasteel.eu; europe.com

Inspection certificate 3.1, EN10204.

103 Doc. nr
2021000295 00

108 Order nr.
56442 A



R07-810-B11 Dimensions		TENSILE TEST										HARD-NESS		IMPACT TEST AND OTHER TESTS											
1500 mm X 5 mm		C18-C29										C60-C65		C40-C60, C65											
PROD.-IDENT	MASS K9	MR	CAST NR.	CAU/ CBE	C10	PO5	Temp °C	R _H Mpa	R _{el} Mpa	R _{p0.2} Mpa	R _m Mpa	A %	A %	R _H /R _m	r-value	n-value	HARD-NESS	C60/ C62	C65	Temp °C	Ind. ind.	Ind. ind.	mean	ASTM E-112	
810444 810445	10111 9861	1	R8700				+ 20	395			473	34.0			84										
TOTAL		120862		12																					

C71-C92		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
R8700		.069	0.484	.016	.007	0.011	0.037	.007	0.019	0.020	.001	.026	.003	.0033	.0000		0.035	.001	.001	.15

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

Stamp of the expert :

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

D1M0676E D1M8911S

JEFFREY FLEMMING
 MGR. MECH. TESTING

Jeffrey Flemming

IJMUIDEN, 2 JANUARI 2021

Tata Steel IJmuiden BV

STEELMAKING PROCESS: B0 Page 2 of 2

TATA STEEL

ATA 439 Reference: 5500001066 WDA 4500033668
 110028653
 2021009576 00
 Inspection certificate 5.1, EN10204.
 101.002.005.004.015

Tata Steel IJmuiden BV
 Heelheerstraat 1
 1970 CA IJmuiden (The Netherlands)
 Telephone: 0251-493110
 E-mail: info.technical@tatasteel-nv.com

Service Centre Maastricht B.V.
 B.U. FEIJEN
 Postbus 10.000
 1970 CA IJMUIDEN
 NOORDHOLLAND

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.

Order No.: 56529 A
 A11 Dispatch note: 70387
 A12 Transport: SEIPOST

A07 PROD.- IDENT	A15 MASS kg	A08 NR	A07 CAST NR.	A10 DIMENSIONS		A05 Temp °C	A11 Rm MPa	A11 Rel MPa	A11 Rm.2 MPa	A12 TENSILE TEST				A12 Rm.2 MPa	A12 Rm. A %	A12 Rm. A %	A12 Rm/Rm %	A12 T- value	A12 n- value	A12 HARD- NESS	A13 IMPACT TEST AND OTHER TESTS				
				A10 1500 mm X	A10 8.00 mm					A12 Rm. P	A12 Rm. P	A12 Rm. P	A12 Rm. P								A12 Rm. P	A12 Rm. P	A12 Rm. P	A12 Rm. P	A12 Rm. P
606854	31880	1	R7792	32	1L	P	+ 20	402	495	30.5	81	1L	P	0	5.0	ISO-V	- 20	2	115	118	121	118	118	118	
606852	31880	1	R7794	32	1L	P	+ 20	395	484	30.5	81	1L	P	0	5.0	ISO-V	- 20	2	120	112	114	115	115	115	
6068531	28860	1	R7794	32	1L	P	+ 20	401	487	30.0	82	1L	P	0	5.0	ISO-V	- 20	2	102	104	107	104	104	104	
606855	31840	1	R7799	32	1L	P	+ 20	400	495	30.5	81	1L	P	0	5.0	ISO-V	- 20	2	131	121	126	126	126	126	
TOTAL	124460	4																							

A09 Order No.: 56529 A
 A10 Dimensions: 1500 mm X 8.00 mm
 A11 Dispatch note: 70387
 A12 Transport: SEIPOST

CHEMICAL COMPOSITION in %

A07 CAST NR.	A07 PROD.- IDENT	A21 C	A22 Mn	A23 P	A24 S	A25 Si	A26 Al	A27 Cu	A28 Cr	A29 Ni	A30 Mo	A31 Nb	A32 V	A33 N	A34 B	A35 C-eq	A36 Al-ZO	A37 Sn	A38 Ti	A39 C-eq1
R7792	R7792	.072	1.030	.016	.085	0.011	0.036	.008	0.024	0.016	.005	.024	.003	.0030	.0000	0.035	.001	.001	.001	.251
R7794	R7794	.076	1.040	.013	.006	0.008	0.029	.006	0.020	0.016	.003	.025	.003	.0030	.0000	0.028	.001	.001	.001	.256
R7799	R7799	.074	1.018	.015	.004	0.009	0.033	.007	0.031	0.016	.002	.025	.002	.0029	.0001	0.032	.001	.001	.001	.252

C50 Bulproofof/Band test/Biegearruch/Test de flexion : good/good/gut/concluant

Stamp of the expert :

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

Stamp of the expert :

Tata Steel IJmuiden BV

JEFFREY FLEMING
 MGR. MECH. TESTING
Jeffrey Fleming

IJMUIDEN, 25 JANUARI 2021

STEELMAKING PROCESS: BO Page 1 of 1