

Material Certificate List

Shipping Address		Information	
Ship-to-party	TAMMINIITY OY KETJUTIE 4 27710 KUYLIJ FINLAND	Document Number	80483135
		Delivery Date	12.05.2021
		Sales Order Number	153396
		Sales Order Date	11.05.2021
		Purchase Order Number	006573
		Customer Number	201512
		Mode of Transportation	
		Delivery Term	DAP EURA
		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 KUYLIJ FINLAND		
Weight-Volume			
Total Gross Weight	17.139,00 KG		
Total Net Weight	17.139,00 KG		
Total Packages	7		

Shipping Details					
Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
10	13002041 HRP,SHEET, 5.00X1500.00X3000.00	4010500	7.600,00	0,00	0,00 KG
Steel Grade	YMPRESS S355 MC				
Batch		Material ID			
20	13001616 Hot Rolled Pickled,Sheet, 8.00X1500.00X3000.00	4010800	2.550,00	2.543,00	2.543,00 KG
Steel Grade	S355				
Batch	0001208844	Material ID	607359		
30	13001617 HRP,SHEET, 10.00X1500.00X3000.00	4011000	5.000,00	0,00	0,00 KG
Steel Grade	S355				
Batch		Material ID			
40	13001619 Hot Rolled Dry,Sheet, 15.00X1500.00X3000.00	4511500	2.120,00	2.120,00	2.120,00 KG
Steel Grade	S355				
Batch	0001191713	Material ID	2957029		
900001	13002041 Hot Rolled Pickled,Sheet, 5.00X1500.00X3000.00	4010500	7.600,00	2.510,00	2.510,00 KG

Material Certificate List

Information	
Document Number	80483135
Delivery Date	12.05.2021

Item	Material Description	Cust. Prod Code	Ordered Quantity	Delivered Quantity	Weight
Steel Grade Batch	YMPRESS S355 MC 0001237693	Material ID	821542		
900002	13002041 Hot Rolled Pickled,Sheet, 5.00X1500.00X3000.00	4010500	7.600,00	2.510,00	2.510,00 KG
Steel Grade Batch	YMPRESS S355 MC 0001237271	Material ID	821538		
900003	13002041 Hot Rolled Pickled,Sheet, 5.00X1500.00X3000.00	4010500	7.600,00	2.510,00	2.510,00 KG
Steel Grade Batch	YMPRESS S355 MC 0001237695	Material ID	821542		
900004	13001617 Hot Rolled Pickled,Sheet, 10.00X1500.00X3000.00	4011000	5.000,00	2.473,00	2.473,00 KG
Steel Grade Batch	S355 0001216506	Material ID	6068601		
900005	13001617 Hot Rolled Pickled,Sheet, 10.00X1500.00X3000.00	4011000	5.000,00	2.473,00	2.473,00 KG
Steel Grade Batch	S355 0001216513	Material ID	6068601		

TATA STEEL

55000001080/00
 55000001080/00
 Inspection certificate 3-1, EN10206.

MAANTALI

Hot rolled pickled, Coil, S555MC, 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 The Netherlands
 Telephone: 0251-492110
 E-mail: info.tst@tatasteel-europe.com

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1970 CA IJMUIDEN
 NOORDHOLLAND

74813

ALL Dispatch note

VAGRANT

IMPACT TEST AND OTHER TESTS

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	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113	C114	C115	C116	C117	C118	C119	C120	C121	C122	C123	C124	C125	C126	C127	C128	C129	C130	C131	C132	C133	C134	C135	C136	C137	C138	C139	C140	C141	C142	C143	C144	C145	C146	C147	C148	C149	C150	C151	C152	C153	C154	C155	C156	C157	C158	C159	C160	C161	C162	C163	C164	C165	C166	C167	C168	C169	C170	C171	C172	C173	C174	C175	C176	C177	C178	C179	C180	C181	C182	C183	C184	C185	C186	C187	C188	C189	C190	C191	C192	C193	C194	C195	C196	C197	C198	C199	C200	C201	C202	C203	C204	C205	C206	C207	C208	C209	C210	C211	C212	C213	C214	C215	C216	C217	C218	C219	C220	C221	C222	C223	C224	C225	C226	C227	C228	C229	C230	C231	C232	C233	C234	C235	C236	C237	C238	C239	C240	C241	C242	C243	C244	C245	C246	C247	C248	C249	C250	C251	C252	C253	C254	C255	C256	C257	C258	C259	C260	C261	C262	C263	C264	C265	C266	C267	C268	C269	C270	C271	C272	C273	C274	C275	C276	C277	C278	C279	C280	C281	C282	C283	C284	C285	C286	C287	C288	C289	C290	C291	C292	C293	C294	C295	C296	C297	C298	C299	C300	C301	C302	C303	C304	C305	C306	C307	C308	C309	C310	C311	C312	C313	C314	C315	C316	C317	C318	C319	C320	C321	C322	C323	C324	C325	C326	C327	C328	C329	C330	C331	C332	C333	C334	C335	C336	C337	C338	C339	C340	C341	C342	C343	C344	C345	C346	C347	C348	C349	C350	C351	C352	C353	C354	C355	C356	C357	C358	C359	C360	C361	C362	C363	C364	C365	C366	C367	C368	C369	C370	C371	C372	C373	C374	C375	C376	C377	C378	C379	C380	C381	C382	C383	C384	C385	C386	C387	C388	C389	C390	C391	C392	C393	C394	C395	C396	C397	C398	C399	C400	C401	C402	C403	C404	C405	C406	C407	C408	C409	C410	C411	C412	C413	C414	C415	C416	C417	C418	C419	C420	C421	C422	C423	C424	C425	C426	C427	C428	C429	C430	C431	C432	C433	C434	C435	C436	C437	C438	C439	C440	C441	C442	C443	C444	C445	C446	C447	C448	C449	C450	C451	C452	C453	C454	C455	C456	C457	C458	C459	C460	C461	C462	C463	C464	C465	C466	C467	C468	C469	C470	C471	C472	C473	C474	C475	C476	C477	C478	C479	C480	C481	C482	C483	C484	C485	C486	C487	C488	C489	C490	C491	C492	C493	C494	C495	C496	C497	C498	C499	C500	C501	C502	C503	C504	C505	C506	C507	C508	C509	C510	C511	C512	C513	C514	C515	C516	C517	C518	C519	C520	C521	C522	C523	C524	C525	C526	C527	C528	C529	C530	C531	C532	C533	C534	C535	C536	C537	C538	C539	C540	C541	C542	C543	C544	C545	C546	C547	C548	C549	C550	C551	C552	C553	C554	C555	C556	C557	C558	C559	C560	C561	C562	C563	C564	C565	C566	C567	C568	C569	C570	C571	C572	C573	C574	C575	C576	C577	C578	C579	C580	C581	C582	C583	C584	C585	C586	C587	C588	C589	C590	C591	C592	C593	C594	C595	C596	C597	C598	C599	C600	C601	C602	C603	C604	C605	C606	C607	C608	C609	C610	C611	C612	C613	C614	C615	C616	C617	C618	C619	C620	C621	C622	C623	C624	C625	C626	C627	C628	C629	C630	C631	C632	C633	C634	C635	C636	C637	C638	C639	C640	C641	C642	C643	C644	C645	C646	C647	C648	C649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C721	C722	C723	C724	C725	C726	C727	C728	C729	C730	C731	C732	C733	C734	C735	C736	C737	C738	C739	C740	C741	C742	C743	C744	C745	C746	C747	C748	C749	C750	C751	C752	C753	C754	C755	C756	C757	C758	C759	C760	C761	C762	C763	C764	C765	C766	C767	C768	C769	C770	C771	C772	C773	C774	C775	C776	C777	C778	C779	C780	C781	C782	C783	C784	C785	C786	C787	C788	C789	C790	C791	C792	C793	C794	C795	C796	C797	C798	C799	C800	C801	C802	C803	C804	C805	C806	C807	C808	C809	C810	C811	C812	C813	C814	C815	C816	C817	C818	C819	C820	C821	C822	C823	C824	C825	C826	C827	C828	C829	C830	C831	C832	C833	C834	C835	C836	C837	C838	C839	C840	C841	C842	C843	C844	C845	C846	C847	C848	C849	C850	C851	C852	C853	C854	C855	C856	C857	C858	C859	C860	C861	C862	C863	C864	C865	C866	C867	C868	C869	C870	C871	C872	C873	C874	C875	C876	C877	C878	C879	C880	C881	C882	C883	C884	C885	C886	C887	C888	C889	C890	C891	C892	C893	C894	C895	C896	C897	C898	C899	C900	C901	C902	C903	C904	C905	C906	C907	C908	C909	C910	C911	C912	C913	C914	C915	C916	C917	C918	C919	C920	C921	C922	C923</
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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	A03 Doc nr. 2021014277 00	A04 TATA STEEL
	A02 Inspection certificate 3.1, EN10204.	
A06 Customer/Consignee SERVICE CENTRE NAASTRICHT B.V. B.V. FEIJEN POSTBUS 10.000 1970 CA IJMUIDEN NOORDHOLLAND	A07, A09 Reference 4500035562 NAANTALI 11009846 00030	A08 Order nr. 57493 C
	A01, B02, B03, B04, B15 Hot rolled dry, Coil, S355MC, YMPRESS WG S:01-2010. Mill edge. Inspect test. Suitable for: Part galvanizing, 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	
C70 STEEL MAKING PROCESS: BO		B09, B10, B11 Dimensions 1500 mm X 15 mm
B13 Total Mass KG 31640		B08 Total NR. 1
All Dispatch Nota 75974		A10 Transport ROSALIE

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

PROD-IDENT: 2957029 MASS KG: 31640 NR: 1 CAST NR: S0505 B07, B08, B13

TENSILE TEST C10-29

C01	C01/C02	C10	C03 Temp (°C)	C11 Rp0.2 (MPa)	C12 Rm (MPa)	C13 A (%)	C16 Rp0.2/Rm (%)
Bottom Middle	Surface Longitudinal	Prismatical	+20	395	529	27.0	75

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	10.0	ISO-V	J	319	315	335	323

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
S0505	0.057	1.315	0.013	0.004	0.011	0.040	0.008	0.021	0.018	0.003	0.034
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_2O	C88 C-eq1				
S0505	0.002	.0041	.0000	0.001	0.001	0.037	.283				

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, 4 February 2021

Jeffrey Flemming

Page 1 of 1 201.202

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 TATA STEEL
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500035855 11001475 00010	A08 Order nr. 57614 A	
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, 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
			A10 Transport LINDBERG

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	

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



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@tatasteleurope.com	A03 Doc nr. 2021027660 00		A04 TATA STEEL
	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		
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)		
Bottom Middle	Surface Longitudinal	Prismatical	+20	370	461	35.5	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		
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)		
Bottom Middle	Surface Longitudinal	Prismatical	+20	370	461	35.5	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		
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)		
Bottom Middle	Surface Longitudinal	Prismatical	+20	370	461	35.5	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		
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)		
Bottom Middle	Surface Longitudinal	Prismatical	+20	382	468	35.0	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		
			Temp (°C)	ReH (MPa)	Rm (MPa)	A (%)	ReH/Rm (%)		
Bottom Middle	Surface Longitudinal	Prismatical	+20	382	468	35.0	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
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-eq1				
S2659	0.002	.0028	.0000	0.001	0.000	0.032	.156				
S2657	0.002	.0025	.0000	0.001	0.001	0.031	.158				
S0538	0.002	.0032	.0001	0.001	0.001	0.027	.172				

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, 6 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. 2021027657 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 4500034290 11001475 00010	A08 Order nr. 56496 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: The Netherlands	
		C70 STEEL MAKING PROCESS: BO
		B09,B10,B11 Dimensions 1500 mm X 5 mm
		B13 Total Mass KG 55551
		B08 Total NR. 4
		A11 Dispatch Note 85051
		A10 Transport LINDBERG

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

PROD-IDENT: 821538	MASS KG: 12849	NR: 1	CAST NR: S0538	B07,B08,B13
TENSILE TEST				C10-29
C01	C01/C02	C10	C03	C11
			Temp (°C)	ReH (MPa)
Bottom Middle	Surface Longitudinal	Prismatical	+20	388
				C12
				Rm (MPa)
				465
				C13
				A (%)
				28.5
				C16
				ReH/Rm (%)
				83

PROD-IDENT: 821537	MASS KG: 13208	NR: 1	CAST NR: S0538	B07,B08,B13
TENSILE TEST				C10-29
C01	C01/C02	C10	C03	C11
			Temp (°C)	ReH (MPa)
Bottom Middle	Surface Longitudinal	Prismatical	+20	388
				C12
				Rm (MPa)
				465
				C13
				A (%)
				28.5
				C16
				ReH/Rm (%)
				83

PROD-IDENT: 821536	MASS KG: 14697	NR: 1	CAST NR: S0530	B07,B08,B13
TENSILE TEST				C10-29
C01	C01/C02	C10	C03	C11
			Temp (°C)	ReH (MPa)
Bottom Middle	Surface Longitudinal	Prismatical	+20	396
				C12
				Rm (MPa)
				474
				C13
				A (%)
				34.0
				C16
				ReH/Rm (%)
				84

PROD-IDENT: 819275	MASS KG: 14797	NR: 1	CAST NR: S1177	B07,B08,B13
TENSILE TEST				C10-29
C01	C01/C02	C10	C03	C11
			Temp (°C)	ReH (MPa)
Bottom Middle	Surface Longitudinal	Prismatical	+20	389
				C12
				Rm (MPa)
				469
				C13
				A (%)
				34.5
				C16
				ReH/Rm (%)
				83

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IJmuiden, 6 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. 2021027657 00		A04 TATA STEEL
	A02 Inspection certificate 3.1, EN10204.		
	A07, A09 Reference 4500034290 11001475 00010	A08 Order nr. 56496 A	

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	
S0538	0.080	0.509	0.012	0.006	0.008	0.029	0.006	0.026	0.017	0.002	0.024	
S0530	0.074	0.512	0.012	0.007	0.008	0.036	0.009	0.022	0.016	0.001	0.026	
S1177	0.070	0.487	0.019	0.006	0.006	0.025	0.005	0.021	0.018	0.001	0.025	
CAST NR.	C82 V	C83 N	C84 B	C85 Ti	C86 Sn	C87 Al_ZO	C88 C-eq1					
S0538	0.002	.0032	.0001	0.001	0.001	0.027	.172					
S0530	0.002	.0031	.0000	0.001	0.001	0.035	.166					
S1177	0.003	.0022	.0000	0.001	0.001	0.024	.158					
C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15												

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