





A01 Tata Steel IJmuiden BV Wenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 54940351 E-mail : info.testing@tatasteel.com	A07.A09 Reference 4500002669 11001464 00030	A02 Inspection certificate 3.1, EM10204. B01.B02.B05.B04.B15	
	A03 Doc. nr 2017130663 00	Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010. 1.00 G/M2/Side oiled. Mill edges.	

A06 Customer/Consignee NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5 21110 NAANTALI FINLAND	Tolerance EM 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.13/-0.13 mm).		Purchase Order: 4500002669 Vendor Batch: 742975		Purchase Order: 4500002669 Vendor Batch: 742976
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A08 Order nr. 50400 C	All Dispatch note 66896	A10 Transport JOLYN 110014640000140486	110014640000140487
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B09.B10.B11 Dimensions										C10-C29 TENSILE TEST										HARD-NESS	C40.C60.C65 IMPACT TEST AND OTHER TESTS																
1500 mm X 3.00 mm										C01	C017	C10	B05	C05	C11	C11	C11	C12	C15	C15	C16	C17	C18	C18	C32	C017	C10	B05	C41	C40.C60.C65	C05	C44	C42	C42	C42	C45	C95
PROD.-IDENT	MASS kg	NR	CAST NR.	Temp °C	ReH MPa	ReL MPa	Rp MPa	Rm MPa	A %	A %	ReH/Rm %	r-value	n-value	mm	Temp °C	ind.	ind.	ind.	mean	ASTM E-112																	
742975	10420	1	H7670	+ 20	398			480	33.0		83																										
742976	10420	1	"																																		
742977	10400	1	"																																		
TOTAL	31240	3																																			

C71-C92 CHEMICAL COMPOSITION in %																				C44											
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-eql	1: J/cm ²	2: J	3: Later. exp. (mm)	4: Contraction (%)	5: Shear area (%)						
H7670		.068	0.486	.012	.006	0.008	0.037	.010	0.017	0.016	.002	.025	.002	.0022	.0000		0.035	.001	.001	.155	1:1=Top	2:1=Edge	3:Bottom	1:Surface	2:Centre	3:Surface	1=Longitudinal	2=Transverse	3=Diagonal dir	1=Prismatical	2=Cylindrical
C-eql: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15																				C70 STEELMAKING PROCESS: B0 Page 1 of 1											

Z05 Stamp of the expert :	Z02 Tata Steel IJmuiden BV SIMON BRAAM MANAGER TESTING  IJMUIDEN, 5 DECEMBER 2017
Z01 We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions	