

**A01** Tata Steel IJmuiden BV  
 Nenckebachstraat 1  
 Postbus 10000  
 1970 CA IJmuiden The Netherlands  
 Telephone: 0251-492110  
 Company Trade Register 54040551  
 E-mail: info.testing@tatasteel-europe.com  
**A06 Customer/Supplier**

**A07 A09 Reference**  
 4500023452  
 110088664  
**MAANTALI STEEL SERVICE CENTRE OY** 00020

**A08 Order nr.**  
 58336 B  
**A11 Dispatch note**  
 78487

**A02** Inspection certificate 3.1, EN10204.  
**B01 B02 B05 B04 B15**

**A05 Doc. nr.**  
 2020038051 00

**A06 Customer/Supplier**  
 SERVICE CENTRE MAASTRICHT B.V.  
 B.U. FEIJEN  
 POSTBUS 10.000  
 1970 CA IJMUIDEN  
 NOORDHOLLAND

**A08** 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 +0.19/-0.19 mm).  
 PRODUCE AND TEST ACCORDING TO EN 10149-2

**A09** 204

**TATA STEEL**

TENSILE TEST		HARDNESS		IMPACT TEST AND OTHER TESTS													
PROD. IDENT	MASS kg	NR	CAST NR.	1500 mm X 10.00 mm	C01	C02	C07	C10	B05	C41	C03	C44	C42	C42	C43	C45	
					R <sub>0.2</sub> MPa	R <sub>m</sub> MPa	A %	A %	R <sub>0.2</sub> /R <sub>m</sub> %	r <sub>m</sub> value	n-value	mm	Temp °C	ind. ind.	ind. ind.	mean	ASTM E-112
604014	31720	1	P4816	32 1L P	536	28.5	28.0	84	85			7.5	ISO-V	208	211	200	206
604015	31740	1	"	32 1L P	530	28.0						7.5	ISO-V	223	226	222	224
<b>TOTAL</b>	<b>63460</b>	<b>2</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
P4816		0.065	1.358	0.015	0.004	0.021	0.045	0.023	0.034	0.029	0.007	0.035	0.003	0.0040	0.0001	0.0043	0.005	0.001		0.300

**C71-C72** 6: Contraction (%)  
 7: Shear area (%)

**C44** 1: J/cm<sup>2</sup>  
 2: Later. exp. (mm)  
 3:

**C01** 1: 1-Top  
 2: 1-Edge  
 3: Middle  
 4: Bottom  
 C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

**C02** 1: Longitudinal  
 2: Transverse  
 3: 45°  
 4: Surface  
 5: 45° Surface  
 6: 45° Surface

**C70** STEELMAKING PROCESS: 80 Page 1 of 1

**Z02** Tata Steel IJmuiden BV  
 Andre Gillebaart  
 GM Product Analysis

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

**Z05** 01M0675E 01M049115

**Z05** Stamp of the expert :

**Z06**

**Z07**

**Z08**

**Z09**

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