

A01 Tata Steel IJmuiden BV Nenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail : info.testing@tatasteel.com		A07.A09 Reference ST#34866										A02 Inspection certificate 3.1, EN10204. B01.B02.B03.B04.B15																											
A03 Doc. nr 2016063086 00										Hot rolled dry, Coil, S355MC, YMPRESS WG S:01-2010. Mill edges. Impact test. Suitable for: Cutting into sheet.																													
A06 Customer/Consignee OY ALUSTEEL AB TELAKKATIE 4 23500 UUSIKAUPUNKI FINLAND										Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.24/-0.24 mm). PRODUCE AND TEST ACCORDING TO EN 10149-2										Z04																			
A08 Order nr. 50893 D										A11 Dispatch note 55581																				A10 Transport ROBIJN									
B09.B10.B11 Dimensions 1500 mm X 16 mm										TENSILE TEST										HARDNESS										IMPACT TEST AND OTHER TESTS									
B07 PROD.-IDENT MASS kg NR CAST NR.										C01-C29 C05 Temp °C C11 ReH MPa C11 ReL MPa C11 Rp MPa C12 Rm MPa C13 A % C13 A % C16 ReH/Rm % C17 r-value C18 n-value										C32 C01/C02 C10 B05 C41 mm C40.C60.C65 C03 Temp °C C44 ind. C42 ind. C42 ind. C42 ind. C43 mean C95 ASTM E-112																			
2967057 28440 1 S5225 3119064 28220 1 S7016 3119065 28200 1 S7020										32 1L P + 20 376 32 1L P + 20 385 32 1L P + 20 386										512 29.5 73 517 29.6 74 513 30.0 75										1L P 0 10.0 ISO-V - 20 2 347 349 341 346 1L P 0 10.0 ISO-V - 20 2 312 325 307 315 1L P 0 10.0 ISO-V - 20 2 346 323 323 331									
TOTAL										84860										3																			
C71-C92 CHEMICAL COMPOSITION in %										C44 1: J/cm ² 2: J 3: Later. exp. (mm)										4: Contraction (%) 5: Shear area (%)																			
B07 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										C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89										C01 C02 L=Longitudinal 1=Top 2=Edge 1=Surface 1=Transverse 2=Middle 2=Middle 2=Centre Z=in thick dir 3=Bottom 3=Surface D=in Diagonal dir C=Cylindrical C-eql: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15																			
S5225 .063 1.315 .013 .004 0.017 0.035 .011 0.016 0.018 .002 .032 .003 .0028 .0000 0.033 .002 .002 .288 S7016 .069 1.340 .016 .002 0.019 0.033 .011 0.021 0.017 .003 .035 .004 .0037 .0000 0.031 .003 .002 .300 S7020 .062 1.338 .012 .003 0.016 0.038 .010 0.018 0.016 .002 .035 .003 .0042 .0000 0.037 .002 .002 .291										C70 STEELMAKING PROCESS: B0										Page 1 of 1																			
Z05 Stamp of the expert :										Z02 Tata Steel IJmuiden BV Test House, IJmuiden SIMON BRAAM MANAGER TESTING 																													
Z01 We certify that the delivery complies with the order prescriptions.										Z05 B06 A04										Z01 IJMUIDEN, 12 JUNI 2016																			