49703

B1
Tata Steel IJmuiden BV
Henckebachstraat 1
1951 JZ Velsen Noord
Postbus 10000
1970 CA IJmuiden The Netherlands
Telephone: 0251-492119

Company Trade Register 34040551
E-mail: info.testing@tatasteeleurope.com

A07.A09 Reference
19030
PLC064 19030 - 007 GC-03-10

A05 Doc. nr
2020029774 00

A02
Test report 2.2, EN 10204.

B01.B02.B03.B04.B15

TATA STEEL

Z04

Hot rolled dry, Coil, SS GRADE 36 TYPE2,LIMIT A, ASTM A 1018:07.
Mill edges.

Tolerance ASTM A 635 HR (Thickness tolerance +0.009/-0.009 inch, Width tolerance +1.25/-0 inch).
COUNTRY OF ORIGIN: THE NETHERLANDS.
EXPORTED BY TATA STEEL IJMUIDEN BV, LOCATED IN THE NETHERLANDS.
THE VALUE OF THE GOODS IS NOT INCLUDED IN THIS DOCUMENT, DUE TO A CONFIDENTIALITY AGREEMENT BETWEEN THE SELLER AND THE BUYER

06 Customer/Consignee

08 Order nr.
56448 K

A11 Dispatch note
69006

A10 Transport
PACIFIC ACHIEVEMENT

09.B10.B11 Dimensions
48.000 " X 0.2500 "

TENSILE TEST

B7 PROD.-IDENT	B15 MASS kg	B08 NR	B07 CAST NR.		C01	C01/C02	C10	B05	C03 Temp °C	C11 R_{eH} psi	C11 R_{eL} psi	C11 $R_{p0.2}$ psi	C12 R_m psi	C13 A_{50} %	C13 A %	C16 R_p/R_m %	C17 r-value	C18 n-value
1499063	19440	1	P4133		32	1T	P		+ 20			46557	65847	31.5		71		
1499064	19380	1	"															
1526068	19360	1	P4135		32	1T	P		+ 20			46122	65702	30.5		70		
1526070	19380	1	"															
1526069	19320	1	"		32	1T	P		+ 20			45686	65266	32.0		70	#61798	
1501068	19340	1	P4138		32	1T	P		+ 20			45686	65847	32.0		69		
TOTAL	116220	6																

HARDNESS C52

IMPACT TEST AND OTHER TESTS

C01/C02	C10	B05	C41 mm	C48.C60.C65	C05 Temp °C	C44	C42 ind.	C42 ind.	C42 ind.	C45 mean	C95 ASTM E-112

CHEMICAL COMPOSITION in %

B07 CAST NR.	B07 PROD.-IDENT	C71 C	C72 Mn	C73 P	C74 S	C75 Si	C76 Al	C77 Cu	C78 Cr	C79 Ni	C80 Mo	C81 Nb	C82 V	C83 N	C84 B	C85 C-eq	C86 Al-ZO	C87 Sn	C88 Ti	C89 C-eq1
P4133		.146	0.709	.016	.008	0.011	0.049	.013	0.021	0.019	.002	.000	.002	.0039	.0000		0.048	.002	.001	.271
P4135		.144	0.715	.014	.008	0.013	0.054	.017	0.023	0.020	.002	.000	.002	.0069	.0000		0.052	.001	.001	.271
P4138		.140	0.712	.011	.006	0.012	0.054	.014	0.018	0.021	.003	.000	.002	.0044	.0000		0.051	.002	.001	.266

C44 1: J/cm² 2: J 3: Later. exp. (mm) 4: Contraction (%) 5: Shear area (%)

C01 1:1=Top 2:1=Edge 2=Middle 2=Middle 3=Bottom

C03 C02 L=Longitudinal 1=Surface T=Transverse 2=Centre Z=in Thickn dir 3=¼ Surface D=in Diagonal dir

C10 P=prismatical C=cylindrical

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

C70 STEELMAKING PROCESS: BO

Page 1 of 1

Z05
Stamp of the expert :

Z02
Tata Steel IJmuiden BV

ANDRE GILLEBAART
GM PRODUCTANALYSIS

IJMUIDEN, 17 MAART 2020

B06 A04

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

WU675E D1W491TS