A01
Tata Steel IJmuiden BV
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Company trade Register 34369331
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A07.A09 Reference
4500002642
11001464 00010

A02 Inspection certificate 3.1, EN10204.

A01.A02.A03.A04.A05

A03 Doc. nr
2017130660 00

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 +0.13/-0.13 mm).

TATA STEEL

Z04

A06 Customer/Consignee

A08 Order nr.
50199 A

A11 Dispatch note
66896

A13 Transport
JOLYN

A09.A10.A11 Dimensions
1500 mm X 3.00 mm

C10-C29 TENSILE TEST

HARD-NESS

C40.C48.C65 IMPACT TEST AND OTHER TESTS

| B07 PROD.-IDENT | B13 MASS kg | B06 NR | B07 CAST NR. | | C01 - | C01/C02 | C18 | B05 | C06 Temp °C | C11 $R_{eH}$ MPa | C11 $R_{eL}$ MPa | C11 $R_p$ MPa | C12 $R_m$ MPa | C15 A % | C13 A % | C14 $R_{eH}/R_m$ % | C17 r-value | C18 n-value | C52 | C01/C02 | C18 | B05 | C41 mm | C48.C48.C65 | C03 Temp °C | C44 | C42 ind. | C42 ind. | C42 ind. | C43 mean | C46 ASTM E-112 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 741891 | 10500 | 1 | H7501 | | 32 | 1L | P | | + 20 | 397 | | | 483 | 32.5 | | 82 | | | | | | | | | | | | | |
| 741892 | 10500 | 1 | " | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 741893 | 10500 | 1 | " | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 741974 | 10510 | 1 | " | | 32 | 1L | P | | + 20 | 403 | | | 482 | 31.5 | | 84 | | | | | | | | | | | | | |
| 741975 | 10520 | 1 | " | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 741976 | 10360 | 1 | " | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 62890 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

C71-C99 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-eql |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H7501 | | .072 | 0.505 | .012 | .006 | 0.006 | 0.043 | .018 | 0.019 | 0.015 | .001 | .026 | .001 | .0022 | .0001 | | 0.038 | .001 | .001 | .162 |

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

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

C01 C02 L=Longitudinal
1=Surface T=Transverse
2=Centre Z=In Thickn dir
3=Z Surface D=In Diagonal dir

C18 P=prismatical C=cylindrical

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

Z79 STEELMAKING PROCESS: BO Page 1 of 1

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

Z05 Stamp of the expert :

Z02
Tata Steel IJmuiden BV

SIMON BRAAM
MANAGER TESTING

IJMUIDEN, 5 DECEMBER 2017

Z06 B04 A04

D1W0675E D1W4911S