

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               |                                                                        |                               |                                                                                              |                                 |                                                                                                                                                         |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Delivery address, Empfänger, Lieu de livraison<br><b>HTM YHTIÖT OY</b><br><b>TEOLLISUUSKUJA 1</b><br><b>14200 TURENKI</b><br><b>SUOMI - FINLAND</b>                                                                                                                                                                                                                                                                                                                                                    |                                                                               |                                                                        |                               | HTM YHTIÖT OY<br><b>TIILITEHTAANTIE 23</b><br><b>12310 RYTTYLÄ</b><br><b>SUOMI - FINLAND</b> |                                 |                                                                                                                                                         |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Requirements, Anforderungen, Exigences<br><b>EN 10088-4:2009</b><br><b>AD 2000 W2, W10 &amp; EN 10028-7:2016</b><br><b>ASTM A240/A240M</b><br><b>ASME SA-240/SA-240M II A ED. 2017</b>                                                                                                                                                                                                                                                                                                                 |                                                                               |                                                                        |                               | Our Order No.<br>Unser Auftrag Nr.<br>Notre commande n°<br><b>300469690</b>                  |                                 | Your order, Ihre Bestellung, Votre commande<br><b>11330</b>                                                                                             |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Product, Erzeugnisform, Produit<br><b>SHEET, STAINLESS STEEL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                               |                                                                        |                               | Mark of Manufacturer<br>Zeichen des Lieferwerkes<br>Signe de producteur<br>outokumpu         |                                 | Process<br>Erschmelzungsart<br>Mode de fusion<br><b>AOD</b>                                                                                             |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Grade, Werkstoff, Nuance<br><b>1.4307 1.4301 TYPE 304</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |                                                                        |                               | Tolerances Toleranzen, Tolérances<br><b>EN ISO 9445-2</b>                                    |                                 | Inspector's stamp<br>Zeichen d. Sachverst.<br>Poicon de l'expert<br> |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Marking, Kennzeichnung, Marquage<br><b>1.4307 2B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |                                                                        |                               | Marks, Versandzeichen, Marques                                                               |                                 |                                                                                                                                                         |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Line<br>Reihe<br>Ligne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Item<br>Position<br>Poste                                                     | Charge-test No.<br>Schmelze-Probe Nr.<br>Coulée n°                     | Size, Abmessungen, Dimensions |                                                                                              | Quantity<br>Stückzahl<br>Nombre | Weight, Gewicht, Poids                                                                                                                                  | Finish<br>Ausführung<br>Fin<br>EN/ASTM |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                                                                             | 81398 3                                                                | 1,0 X 1250 X 2500 MM          |                                                                                              | 66                              | 1592 KG                                                                                                                                                 | 2B                                     |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                                                                             | 72319 J                                                                | 1,5 X 1250 X 2500 MM          |                                                                                              | 27                              | 982 KG                                                                                                                                                  | 2B                                     |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                                                                             | 72367 H                                                                | 2,0 X 1250 X 2500 MM          |                                                                                              | 30                              | 1514 KG                                                                                                                                                 | 2B                                     |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6                                                                             | 81534 1                                                                | 1,0 X 1500 X 3000 MM          |                                                                                              | 42                              | 1480 KG                                                                                                                                                 | 2B                                     |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7                                                                             | 81918 2                                                                | 1,25 X 1500 X 3000 MM         |                                                                                              | 38                              | 1624 KG                                                                                                                                                 | 2B                                     |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Charge no.<br>Schmelze Nr.<br>Coulée n°                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               | Chemical composition, Chemische Zusammensetzung, Composition chimiques |                               |                                                                                              |                                 |                                                                                                                                                         |                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               | C<br>%                                                                 | Si<br>%                       | Mn<br>%                                                                                      | P<br>%                          | S<br>%                                                                                                                                                  | Cr<br>%                                | Ni<br>%                          | N<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| 81398                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,019                                                                  | 0,35                          | 1,54                                                                                         | 0,035                           | 0,001                                                                                                                                                   | 18,1                                   | 8,0                              | 0,054                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| 72319                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,024                                                                  | 0,36                          | 1,38                                                                                         | 0,029                           | 0,001                                                                                                                                                   | 18,1                                   | 8,0                              | 0,061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| 72367                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,022                                                                  | 0,38                          | 1,36                                                                                         | 0,026                           | 0,001                                                                                                                                                   | 18,2                                   | 8,0                              | 0,059                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| 81534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,021                                                                  | 0,47                          | 1,55                                                                                         | 0,037                           | 0,001                                                                                                                                                   | 18,3                                   | 8,0                              | 0,050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| 81918                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,025                                                                  | 0,34                          | 1,54                                                                                         | 0,035                           | 0,001                                                                                                                                                   | 18,3                                   | 8,0                              | 0,050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| Line<br>Reihe<br>Ligne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mechanical properties, Mechanische Eigenschaften, Caractéristiques mécaniques |                                                                        |                               |                                                                                              |                                 |                                                                                                                                                         |                                        |                                  | Tensile test, Zugversuch, Essai de traction<br><b>ISO 6892-1:2009 A224</b><br><b>SAMPLES PERPENDICULAR TO</b><br><b>THE ROLLING DIRECTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID<br>Proben ID<br>Echantillon                                         | Rp0.2<br>MPa                                                           | Rp1.0<br>MPa                  | Rm<br>MPa                                                                                    | %                               | A50<br>%                                                                                                                                                | A80<br>%                               | Hardness<br>Härte, Dureté<br>HBW |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 21                                                                            | 263                                                                    | 296                           | 625                                                                                          |                                 | 61                                                                                                                                                      | 59                                     | 156                              | APPROVED ACC.TO<br>AD2000-W0 WITH<br>VERIFICATION OF THE<br>UNIFORMITY OVER THE<br>STRIP LENGTH. CERTIFIED<br>ACC.TO PED 2014/68/EU BY<br>TUV NORD REG. NO. 0045.<br>DOPS ACC. TO CPR<br>AVAILABLE ON THE WEB<br>PAGE BY STEEL NUMBER                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22                                                                            | 264                                                                    | 297                           | 627                                                                                          |                                 | 60                                                                                                                                                      | 58                                     | 150                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 294                                                                    | 325                           | 633                                                                                          |                                 | 59                                                                                                                                                      | 57                                     | 165                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 280                                                                    | 309                           | 624                                                                                          |                                 | 60                                                                                                                                                      | 58                                     | 140                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 310                                                                    | 341                           | 633                                                                                          |                                 | 57                                                                                                                                                      | 56                                     | 177                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 308                                                                    | 339                           | 633                                                                                          |                                 | 57                                                                                                                                                      | 56                                     | 178                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 279                                                                    | 315                           | 633                                                                                          |                                 | 56                                                                                                                                                      | 55                                     | 164                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 274                                                                    | 308                           | 630                                                                                          |                                 | 59                                                                                                                                                      | 57                                     | 161                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 279                                                                    | 314                           | 630                                                                                          |                                 | 56                                                                                                                                                      | 55                                     | 164                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 275                                                                    | 308                           | 630                                                                                          |                                 | 56                                                                                                                                                      | 55                                     | 162                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |
| Identity test, Verwechslungsprüfung, Contrôle d'identification<br>SIZES: Abmessungen, Dimensions<br>Surface, Oberfläche, Surface<br>Test of intergran. corros. Prüfung auf interkrist. Korros. Test de corros. interkrist.<br><b>EN ISO 3651-2 A: OK</b>                                                                                                                                                                                                                                               |                                                                               |                                                                        |                               |                                                                                              |                                 |                                                                                                                                                         |                                        |                                  | OK<br>OK<br>OK<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| ASTM A240/A240M<br>ASME SA-240/SA-240M II A ED. 2017<br>TYPE 304L<br>EN 10088-2:2014/1.4307, 1.4301<br>NACE MR0103/ISO 17945 AND<br>NACE MR0175/ISO 15156-1 / NACE MR0175/ISO 15156-3<br>HEAT TREATMENT 1060 C<br>SOLUTION ANNEALED<br>72319J PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>72367H PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>73029K PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>72899K PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>73021L PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>11330 |                                                                               |                                                                        |                               |                                                                                              |                                 |                                                                                                                                                         |                                        |                                  | We certify that the above mentioned products comply with the terms of the order contract.<br>Wir bestätigen, dass die Lieferung den Vereinbarungen der Bestellannahme entspricht.<br>Nous certifions que les produits énumérés ci-dessus sont conformes aux prescriptions de la commande.<br><br>This test certificate is made by controlled ADP-system and is valid without signature.<br>Dieses Zeugnis wurde von einem überprüften Datenverarbeitungssystem erstellt und ist ohne Unterschrift gültig.<br>Ce certificat a été établi par un système informatique contrôlé et est valide sans signature. |  |  |  |  |
| <b>Outokumpu Stainless Oy</b><br><br>Authorized inspector<br>Werkssachverständiger<br>Inspecteur autorisé<br><b>LARI NISSINEN</b>                                                                                                                                                                                                                                                                                 |                                                                               |                                                                        |                               |                                                                                              |                                 |                                                                                                                                                         |                                        |                                  | FI-95490 Tornio, Finland<br>Tel. +358 16 4521, email certificate.tornio@outokumpu.com,<br>www.outokumpu.com<br>Domicile: Tornio, Finland. Business Identity Code 0823315-9                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               |                                                                        |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Delivery address, Empfänger, Lieu de livraison<br><b>HTM YHTIÖT OY</b><br><b>TEOLLISUUSKUJA 1</b><br><b>14200 TURENKI</b><br><b>SUOMI - FINLAND</b>                                                                                                                                                                                                                                                                                                                                                    |                                                                               |                                                                        |                               | HTM YHTIÖT OY<br><b>TIILITEHTAANTIE 23</b><br><b>12310 RYTTYLÄ</b><br><b>SUOMI - FINLAND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Requirements, Anforderungen, Exigences<br><b>EN 10088-4:2009</b><br><b>AD 2000 W2, W10 &amp; EN 10028-7:2016</b><br><b>ASTM A240/A240M</b><br><b>ASME SA-240/SA-240M II A ED. 2017</b>                                                                                                                                                                                                                                                                                                                 |                                                                               |                                                                        |                               | Our Order No.<br>Unser Auftrag Nr.<br>Notre commande n°<br><b>300469690</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | Your order, Ihre Bestellung, Votre commande<br><b>11330</b>                                                                                             |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Product, Erzeugnisform, Produit<br><b>SHEET, STAINLESS STEEL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                               |                                                                        |                               | Mark of Manufacturer<br>Zeichen des Lieferwerkes<br>Signe de producteur<br>outokumpu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        | Process<br>Erschmelzungsart<br>Mode de fusion<br><b>AOD</b>                                                                                             |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Grade, Werkstoff, Nuance<br><b>1.4307 1.4301 TYPE 304</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |                                                                        |                               | Tolerances Toleranzen, Tolérances<br><b>EN ISO 9445-2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | Inspector's stamp<br>Zeichen d. Sachverst.<br>Poicon de l'expert<br> |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Marking, Kennzeichnung, Marquage<br><b>1.4307 2B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |                                                                        |                               | Marks, Versandzeichen, Marques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Line<br>Reihe<br>Ligne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Item<br>Position<br>Poste                                                     | Charge-test No.<br>Schmelze-Probe Nr.<br>Coulée n°                     | Size, Abmessungen, Dimensions | Quantity<br>Stückzahl<br>Nombre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Weight, Gewicht, Poids | Finish<br>Ausführung<br>Fin<br>EN/ASTM                                                                                                                  | <br>14<br>0045-CPR-0567 |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8                                                                             | 73029 K                                                                | 1,5 X 1500 X 3000 MM          | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1538 KG                | 2B                                                                                                                                                      |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9                                                                             | 72899 K                                                                | 2,0 X 1500 X 3000 MM          | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4200 KG                | 2B                                                                                                                                                      |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10                                                                            | 73021 L                                                                | 2,5 X 1500 X 3000 MM          | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1602 KG                | 2B                                                                                                                                                      |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Charge no.<br>Schmelze Nr.<br>Coulée n°                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               | Chemical composition, Chemische Zusammensetzung, Composition chimiques |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               | C<br>%                                                                 | Si<br>%                       | Mn<br>%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P<br>%                 | S<br>%                                                                                                                                                  | Cr<br>%                                                                                                    | Ni<br>%                                                                               | N<br>%                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| 73029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,024                                                                  | 0,34                          | 1,29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0,029                  | 0,001                                                                                                                                                   | 18,3                                                                                                       | 8,0                                                                                   | 0,066                                                                                                                                                                                                                                                                                                       |  |  |  |  |
| 72899                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,026                                                                  | 0,36                          | 1,37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0,029                  | 0,001                                                                                                                                                   | 18,1                                                                                                       | 8,1                                                                                   | 0,073                                                                                                                                                                                                                                                                                                       |  |  |  |  |
| 73021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | 0,029                                                                  | 0,31                          | 1,28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0,030                  | 0,001                                                                                                                                                   | 18,2                                                                                                       | 8,0                                                                                   | 0,066                                                                                                                                                                                                                                                                                                       |  |  |  |  |
| Line<br>Reihe<br>Ligne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mechanical properties, Mechanische Eigenschaften, Caracteristiques mecaniques |                                                                        |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                                                                                                                         |                                                                                                            |                                                                                       | Tensile test, Zugversuch, Essai de traction<br><b>ISO 6892-1:2009 A224</b><br><b>SAMPLES PERPENDICULAR TO</b><br><b>THE ROLLING DIRECTION</b>                                                                                                                                                               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID<br>Proben ID<br>Echantillon                                         | Rp0.2<br>MPa                                                           | Rp1.0<br>MPa                  | Rm<br>MPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | %                      | A50<br>%                                                                                                                                                | A80<br>%                                                                                                   | Hardness<br>Härte, Duraté<br>HBW                                                      |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 293                                                                    | 330                           | 631                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 59                                                                                                                                                      | 57                                                                                                         | 168                                                                                   | <b>APPROVED ACC.TO</b><br><b>AD2000-W0 WITH</b><br><b>VERIFICATION OF THE</b><br><b>UNIFORMITY OVER THE</b><br><b>STRIP LENGTH. CERTIFIED</b><br><b>ACC.TO PED 2014/68/EU BY</b><br><b>TUV NORD REG. NO. 0045.</b><br><b>DOPS ACC. TO CPR</b><br><b>AVAILABLE ON THE WEB</b><br><b>PAGE BY STEEL NUMBER</b> |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 294                                                                    | 333                           | 633                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 55                                                                                                                                                      | 54                                                                                                         | 167                                                                                   |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 343                                                                    | 373                           | 646                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 54                                                                                                                                                      | 53                                                                                                         | 192                                                                                   |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 340                                                                    | 370                           | 644                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 55                                                                                                                                                      | 54                                                                                                         | 192                                                                                   |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01                                                                            | 313                                                                    | 342                           | 639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 57                                                                                                                                                      | 56                                                                                                         | 174                                                                                   |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02                                                                            | 314                                                                    | 344                           | 639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 57                                                                                                                                                      | 56                                                                                                         | 182                                                                                   |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| Identity test, Verwechslungsprüfung, Controle d'identification<br>Sizes, Abmessungen, Dimensions<br>Surface, Oberfläche, Surface<br>Test of intergran. corros. Prüfung auf interkrist. Korros. Test de corros. interkrist.<br><b>EN ISO 3651-2 A: OK</b>                                                                                                                                                                                                                                               |                                                                               |                                                                        |                               | OK<br>OK<br>OK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                                                                                                                                                         |                                                                                                            |  |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
| ASTM A240/A240M<br>ASME SA-240/SA-240M II A ED. 2017<br>TYPE 304L<br>EN 10088-2:2014/1.4307, 1.4301<br>NACE MR0103/ISO 17945 AND<br>NACE MR0175/ISO 15156-1 / NACE MR0175/ISO 15156-3<br>HEAT TREATMENT 1060 C<br>SOLUTION ANNEALED<br>72319J PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>72367H PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>73029K PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>72899K PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>73021L PRODUCT MELTED IN CALVERT, ALABAMA, USA<br>11330 |                                                                               |                                                                        |                               | We certify that the above mentioned products comply with the terms of the order contract.<br>Wir bestätigen, dass die Lieferung den Vereinbarungen der Bestellannahme entspricht.<br>Nous certifions que les produits énumérés ci-dessus sont conformes aux prescriptions de la commande.<br><br>This test certificate is made by controlled ADP-system and is valid without signature.<br>Dieses Zeugnis wurde von einem überprüften Datenverarbeitungssystem erstellt und ist ohne Unterschrift gültig.<br>Ce certificat a été établi par un système informatique contrôlé et est valide sans signature. |                        |                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               |                                                                        |                               | Authorized inspector<br>Werkssachverständiger<br>Inspecteur autorisé<br><b>LARI NISSINEN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                                                                                                                                                         |                                                                                                            |  |                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               |                                                                        |                               | FI-95490 Tornio, Finland<br>Tel. +358 16 4521, email certificate.tornio@outokumpu.com,<br>www.outokumpu.com<br>Domicile: Tornio, Finland. Business Identity Code 0823315-9                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                         |                                                                                                            |                                                                                       |                                                                                                                                                                                                                                                                                                             |  |  |  |  |