



C291124

| PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|---|--|--|----------------------------|-----------|---------------------------------------|-----------------------------|--|-------------------------------|------|--|------|------|------|------|------|-------|---|---|--|---|--|---|--|---|--|------|-------|------|-------|------|-------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
|  | | CUSTOMER DSS INTERNATIONAL SA Switzerland | | | | | | | | | | PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь I AKP Round 3.750in/95.25 mm L=16.033ft/4.890 m L=15.574ft/4.750 m L=14.262ft/4.350 m L=12.557ft/3.830 m Grade: 316/316L/1.4401/1.4404 | | | | | | | INSPECTION CERTIFICATE EN10204/3.1 Nr. 368184 PLANT ORDER № 8014900973 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | QUANTITY: (number of pcs) 1bund Q-3051 lb/1384 kg 1bund Q-3034 lb/1376 kg 1bund Q-560 lb/254 kg 1bund Q-498 lb/226 kg | | | | | | | Delivery condition solution annealed :1900 ⁰ F(1040 ⁰ C) water 30minutes термообработка: закалка в воду | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYSIS, % | | C | Si | Mn | P | S | Cr | Ni | Mo | Al | Cu | V | W | Ti | Co | Nb | N | Sn | B | | | | | | | | | | | | | | | | | | | | | | | | |
| REQUIRED | | <.030 | <1,00 | 1.20-2.00 | <.040 | .015-.030 | 16.50-18.00 | 10.00-13.00 | 2.00-2.50 | <.10 | <.40 | <.10 | <.20 | <.15 | <.40 | <.20 | <.10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAST № A09656 | | .021 | .48 | 1.33 | .040 | .025 | 16.92 | 10.21 | 2.07 | .069 | .27 | .06 | .07 | .008 | .12 | .01 | .026 | .0075 | .0022 | | | | | | | | | | | | | | | | | | | | | | | | |
| DIN EN 10002-1, ASTM A370-09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MECHANICAL PROPERTIES | | Yield Strength, (N/mm ²) R0.2% R 1.0% | | Tensile Strength, Rm, (N/mm ²) | Elongation As, % L Q | | In 2 inches (50mm) or 4D, min, % L | Reduction of area, Z % L | Brinell Hardness HB | Impact strength, KV, J L Q | | TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="1"> <thead> <tr> <th colspan="2">A</th> <th colspan="2">B</th> <th colspan="2">C</th> <th colspan="2">D</th> </tr> <tr> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> </tr> </thead> <tbody> <tr> <td>3.0</td> <td>2.0</td> <td>2.0</td> <td>1.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>1.0</td> </tr> </tbody> </table> ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test – OK We acknowledge that the delivered products conform to the requirements of the order Ratio of reduction-35.1:1 | | | | | | | | A | | B | | C | | D | | thin | thick | thin | thick | thin | thick | thin | thick | 3.0 | 2.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| A | | B | | C | | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| thin | thick | thin | thick | thin | thick | thin | thick | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 2.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REQUIRED | | 205 | 240 | 515-700 | 40 - | 40 | 50 | 140-217 | 100 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EFFECTIVE | | 295 293 | 319 317 | 568 566 | 59 - 60 - | 58 58 | 77 77 | 167 167 | 220 220 220 221 221 221 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanical properties tested in state of delivery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| US - testing | | yes | Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Radiation free; mercury free. No Weld or Weld repair. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date: 01.04.2021 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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