


311

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

| | | | |
|--|--|--|--|
|  | <p>Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 3746/P046707 DIN EN 10088-3-05, DIN EN 10272-08, AD2000-Merkblatt W2; AD 2000-Merkblatt W10; ASTM A182/A182M-10; ASME SA-182/SA-182M-10; ASTM A276-10; ASTM A314-08, ASTM A479/A479M-10; ASME SA-479/SA-479M-10; ASTM A484/A484M-10; AMS-QQ-S-763B-06 Cond. A; AMS 5648K-07; AMS 5653F-07; ASTM A193/A193M-10GR B8M, CL1; ASME SA-193/SA-193M-10 GR B8, CL 1; ASTM A320/A320M-08 GR B8M, CL 1; ASME SA-320/SA-320M-10 GR B8, CL1; NACE MR 0175-03; NACE MR 0103-10</p> | <p>INSPECTION CERTIFICATE EN10204/3.1 Nr. 348117 PLANT ORDER № 8014903746</p> | |
|  <p>GMS Certified</p> | <p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p> | <p>PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионноустойчивых (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКП Round 2.75 in/69.85 mm L=4.58 m/15.016ft ; L=5.64m/18.492ft; L=5.63m/18.459ft; L=5.62m/18.426ft Grade: 316/316L/1.4401/1.4404</p> | <p>QUANTITY: (number of pcs) 1bund Q-631 lb/286 kg 1bund Q-1944 lb/882 kg 1bund Q-3884 lb/1762 kg 1bund Q-3884 lb/1762 kg</p> <p>Delivery condition solution annealed :1900° F(1040° C) water 30minutes термообработка: закалка в воду</p> |

| 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 № A07516 | .020 | .39 | 1.44 | .039 | .024 | 17.19 | 10.26 | 2.10 | .069 | .31 | .05 | .08 | .005 | .10 | .011 | .069 | .012 | .0022 |

| DIN EN 10002-1, ASTM A370-09 | | | | | | | | | | <p>TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) A B C D thin thick thin thick thin thick thin thick 2.5 2.0 2.0 2.0 0.0 0.0 1.0 1.0 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-62.4:1 Manufacturer: PrJSC DNIPROSPETSSTAL Date: 07.08.19 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.</p> | | | | | | | | | | |
|---|--|------------|--|------------|---------------------------------------|-----------------------------|---------------------|------------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|---|
| MECHANICAL PROPERTIES | Yield Strength, (N/mm ²) R0.2% R 1.0% | | Tensile Strength, Rm, (N/mm ²) | Elongation | | Reduction of area, Z % L | Brinell Hardness HB | Impact strength, KV, J | | | | | | | | | | | | |
| | A5% | L | | Q | In 2 inches (50mm) or 4D, min, % L | | | L | Q | | | | | | | | | | | |
| REQUIRED | 205 | 240 | 515-690 | 40 | - | 40 | 50 | 140-217 | 100 | | | | | | | | | | | - |
| EFFECTIVE | 297 302 | 335 341 | 564 562 | 60 | - | 58 58 | 80 79 | 163 163 | 200 200 200 204 204 204 | | | | | | | | | | | - |
| Mechanical properties tested in state of delivery US - testing yes Results: ASTM A388/A388M-FBH1/8"; EN 10308 type Ia; class 3:OK Radiation free; mercury free. No Weld or Weld repair. | | | | | | | | | | | | | | | | | | | | |

P.O. # 6039
 Part # 03-FM X01-DEF SCH 3
 Description: 3" Default Schedule (80)
 : ANSI RF, 316 SS /CS Static Mixer

3 NPS RPM 201
 3 NPS RVM 702

ANS