


C265670


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

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|  | Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№7107/PO48147 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, 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-10 GR 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 | | INSPECTION CERTIFICATE EN10204/3.1 №.355883 PLANT ORDER № 8014907107 |
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|  QMS Certified | CUSTOMER DSS INTERNATIONAL SA Switzerland | PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 15.000in/381.00 mm L=3.120m/10.230ft Grade: 316/316L/1.4401/1.4404 | QUANTITY: (number of pcs) 1bund Q-6376 lb/2892 kg |
| | | | Delivery condition solution annealed :1904°F(1040°C)water 36minutes 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 № A08383 | .022 | .42 | 1.40 | .039 | .025 | 16.66 | 10.26 | 2.06 | .062 | .32 | .05 | .06 | .013 | .12 | .01 | .030 | .012 | .0022 |

| DIN EN 10002-1, ASTM A370-09 | | | | | | | | | | TECHNICAL REQUIREMENTS: | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | |
| | L | Q | | In 2 inches (50mm) or 4D, min, % L | L | | | L | L | Q | 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 2.5 2.0 0.0 0.0 1.0 1.0 | | | | | | | | | | | | |
| REQUIRED | 205 | 240 | 515-700 | 45 | 35 | 40 | 50 | 140-217 | 100 | 60 | | | | | | | | | | | | | |
| EFFECTIVE | 276 | 308 | 562 | 60 | 53 | 59 | 77 | 167 | 204 | 204 | 204 | 61 | 61 | 61 | 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-6.3:1 | | | | | | | | |
| Mechanical properties tested in state of delivery | | | | | | | | | | | | | | | | | | | | | | | |

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| US - testing | yes | Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type 1a; class 3:OK | Date: 08.04.2020 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhyc Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com |
| Radiation free; mercury free. No Weld or Weld repair. | | |  |

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