




C224524

**PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE**

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 0111/PO44618 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-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		Sheets: 4 INSPECTION CERTIFICATE EN10204/3.1 Nr.336960 PLANT ORDER № 8014900111 Sheet: 4	
CUSTOMER <b>DSS INTERNATIONAL</b> SA Switzerland 		<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ:</b> Электродуговая печь+АКР Round 15,000in/381,00 mm L= 8,115 ft/2,475 m. <b>Grade: 316/316L/1.4401/1.4404</b>		QUANTITY: 1bund Q-5057 lb/2294 kg (number of pcs) Delivery condition solution annealed :1940° F(1060° C)water 30minutes термообработка:закалка в воду	
ANALYSIS, % REQUIRED CAST № A06284		C Si Mn P S Cr Ni Mo Al <.030 <1,00 1.20-2.00 <.040 .015-0.30 16.50-18.00 10.00-13.00 2.00-2.50 <.10 .018 .45 1.29 .040 .025 16,78 10,30 2,06 .076		Cu V W Ti Co Nb N Sn B <.40 <.10 <.20 <.15 <.40 <.20 <.10 <.10 <.0022 .33 .05 .07 .005 .12 .011 .028 .011	
MECHANICAL PROPERTIES REQUIRED EFFECTIVE		Yield Strength (N/mm <sup>2</sup> ) R0.2% R 1.0% 205 240 279 304 Tensile Strength, Ksm. (N/mm <sup>2</sup> ) 515-690 549 Elongation A <sub>5</sub> % L Q 45 35 58 48 40 57 Reduction of area, % L Q 50 73 100 190 190 66 66 66		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 3.0 2.0 2.0 1.0 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-6.3:1	
US - testing Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK yes		Manufacturer: PrJSC DNIPROSPETSSTAL Date: 16.08.18 assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.		Manager of quality 	
Radiation free; mercury free. No Weld or Weld repair.		Mechanical properties tested in state of delivery		(MK)	