




HT# A06221 SW# 4955

CA20973

		PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE	
Contract No.: 20002 TECHN. PROTOCOL № 390-11 SPEC. № 9728/PO44311 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, CL.1, 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, CL.1, NACE MR 0175-03, NACE MR 0103-10		Sheets: 8 Sheet: 2 INSPECTION CERTIFICATE EN10204/3.1 Nr. 336112 PLANT ORDER № 8014909728	
CUSTOMER DSS INTERNATIONAL SA Switzerland 		QUANTITY: 1bund Q-2019 lb/916 kg 1bund Q-4048 lb/1836 kg Delivery condition solution annealed : 1900° F (1040° C) water 30minutes термообработка: закатка в воду	
PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обработанные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПУСККИ: Электродуговая печь+АКР Round 6.250m/158.75 mm L=18.459ft/5.630m L=18.492ft/5.640m Grade: 316/316L/1.4401/1.4404			
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 <.10 <.10 <.024			
CAST № A06221 .018 .38 1.35 .040 .024 16,77 10,20 2,07 .068 .32 .05 .06 .068 .13 .01 .026 .011 .0024			
MECHANICAL PROPERTIES Yield Strength (N/mm ²) 205 240 298 336 302 342		TECHNICAL REQUIREMENTS: Macrostructure - GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) thin thick thin thick thin thick 3.0 2.0 2.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 ICC-ASTM A262-08 (practice F)-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-15:1:1	
REQUIRED 205 240 40 - 40 50 140-223 100 -		Impact strength, K V, J L Q - -	
EFFECTIVE 298 336 60 - 59 78 163 204 204 204 302 342 59 - 58 78 163 208 208 208		Manufacturer: PrJSC DNIPROSPETSSTAL Date: 23.07.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.	
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.	

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