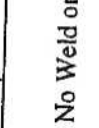


C236382

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																	
Contract No.: 200002 TECHN. PROTOCOL № 390-11 SPEC. № 1897/PO45605 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/SA-479M-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 (EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8, CL1 (EXC PAR 7.3); NACE MR 0175-03; NACE MR 0103-10																	
PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Пруты из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электроплавка пещь+АКР Round 5.25 in/133.35mm L=6.19m/20.295ft, L=6.19 m/20.295ft Grade: 316/316L/1.4401/1.4404																	
CUSTOMER DSS INTERNATIONAL SA Switzerland																	
Delivery condition solution annealed : 1900° F(1040° C) water 30minutes термообработка: закалка в воду																	
Sheets: 5 Sheet: 2 INSPECTION CERTIFICATE EN10204/3.1 Nr. 343151 PLANT ORDER № 8014901897 1bund Q-3095lb/1404kg 1bund Q-3100 lb/1406kg																	
QUANTITY: (number of pcs)																	
GMS Certified																	
ANALYSIS, %																	
REQUIRED	C	Si	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
CAST	<.030	<.100	<.040	.015- .030	16.50- 18.00	10.00- -13.00	2.00- -2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
№ A06954	.022	.49	.038	.025	16.73	10.40	2.07	.083	.28	.06	.06	.005	.09	.012	.030	.0093	.0024
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		Brinell Hardness HB	Impact strength, KV, J											
			A ₅ % L Q	In 2 inches (50mm) or 4D, min, % L		L	Q										
REQUIRED	205	515-690	40	40	140-217	100	-										
EFFECTIVE	286	573	62	61	170	197 197 197	-										
	281	574	63	61	170	193 193 193	-										
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.																	
TECHNICAL REQUIREMENTS: Macrostructure - GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) A thin thick thin thick thin thick thin thick B 3.0 2.0 2.0 1.0 0.0 0.0 1.0 1.0 C 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 D 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-20.8:1 Manufacturer: PrJSC DNIPROSPETSSTAL Date: 04.03.19 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																	

INS.