


C294946

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

	<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 6.25in/158.75 mm L=18.426ft/5.62 m, L=18.593ft/5.61 m, L=13.377ft/4.08 m <b>Grade: 316/316L/1.4401/1.4404</b>	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 2013/PO50775 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 5548K-07, AMS 5653F-07, ASTM A193/A193M-10GR B8M, CL1 (EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8, CL 1 (EXC PAR 7.3); NACE MR 0175-03; NACE MR 0103-10	Sheets: 1      Sheet: 1 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 369930</b> PLANT ORDER № 8014902613
			QUANTITY: (number of pcs)	1bund Q-4017 lb/1822 kg 1bund Q-2002 lb/908 kg 1bund Q-1459 lb/662 kg
Delivery condition solution annealed : 1900° F(1040° C) water 30minutes термобработка: 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 № A09881	.018	.44	1.34	.039	.024	16.82	10.21	2.07	.066	.28	.05	.05	.005	.13	.012	.032	.0087	.0022

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:														
MECHANICAL PROPERTIES	Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J		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 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 Ratio of reduction-22.3:1														
	L	Q		A <sub>5</sub> , %	In 2 inches (50mm) or 4D, min, % L			L	L											L	Q			
REQUIRED	205	240	515-700	40	-	40	50	140-217	100	-														
EFFECTIVE	280	310	567	60	-	58	73	167	217	217	217	223	223	223										
EFFECTIVE	286	316	571	60	-	58	75	167	223	223	223													
Mechanical properties tested in state of delivery										Date 23.05.2021 <b>Manager of quality assurance department</b> - V. Kapaieva Signed Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC "Dnipropetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com														
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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