



C277647

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC №9684/PO49596 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, 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, 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 Nr.363163 PLANT ORDER № 8014909684
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	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 8.000in/203.20 mm L=12.393 ft/3.780m L=12.262 ft/3.740m L=12.377 ft/3.775m L=13.213 ft/4.030m Grade: 316/316L/1.4401/1.4404	QUANTITY: (number of pcs) 1bund Q-2227 lb/1010 kg 1bund Q-2213 lb/1004 kg 1bund Q-2218 lb/1006 kg 1bund Q-2385 lb/1082 kg
			Delivery condition solution annealed :1940° F(1060° C)water 18minutes 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 № A09131	.020	.43	1.30	.037	.025	17.06	10.15	2.08	.07	.27	.05	.06	.005	.13	.011	.030	.0095	.0022

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:								
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		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 1.5 1.5 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-9.7:1								
	L	Q		A ₅ %	In 2 inches (50mm) or 4D, min, % L			L	L									
REQUIRED	205	240	515-690	45 35	40	50	140-217	100	60									
EFFECTIVE	273 275	304 306	553 555	58 49 58 49	57 57	73 73	163 163	198 198 198 195 195 195	63 63 63 62 62 62									

US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10228-4 type 1a; class 3 OK	Date: 06.11.2020 Manager of quality assurance department - V Kapateva Signed Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com
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Radiation free; mercury free. No Weld or Weld repair.

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