



C244204


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№2914/PO46181 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.346135 PLANT ORDER № 8014902914
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 QMS Certified	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 8.500in/215.90 mm L=14.672 ft/4.475m L=15.344 ft/4.680m Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-2972 lb/1348 kg (number of pcs) 1bund Q-3113 lb/1412 kg Delivery condition solution annealed : 1922 ^o F(1050 ^o C) water 25minutes термообработка: закалка в воду
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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 № A07302	.021	.46	1.36	.040	.023	17.35	10.23	2.10	.076	.29	.05	.05	.005	.11	.011	.023	.0086	.0025

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 3.0 2.0 3.0 2.0 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-8.3:1														
	L	Q		In 2 inches (50mm) or 4D, min, % L	L			Q	L											Q				
REQUIRED	205	240	515-690	45	35	40	50	140-217	100	60														
EFFECTIVE	288 290	304 306	559 559	58	51 58	57 57	73 73	163 163	200 198	200 198	200 198	65 64	65 64	65 64										

Mechanical properties tested in state of delivery			Manufacturer: PrJSC DNIPROSPETSSTAL Date: 07.06.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.									
US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10228-4 type 1a; class 3:OK										
Radiation free; mercury free. No Weld or Weld repair.												

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