


C160766


PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№1367/P038337 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		Sheets:7 Sheet: 7 INSPECTION CERTIFICATE EN:0204/3.1 Nr.309117 PLANT ORDER № 8014901367
	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 9.500m/241.30 mm L=17.967m/5.480m L=16.361m/4.990m Grade: 316/316L/L.4401/L.4404	QUANTITY: 1bund Q-4546 lb/2062 kg (number of pcs) 1bund Q-4162 lb/1888 kg Delivery condition solution annealed :1922°F(1050°C)water 30minutes термообработка:закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	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 № A03566	.022	.43	1.29	.040	.025	16.90	10.23	2.04	.072	.21	.04	.15	.005	.07	.01	.029	.009	.0012

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		TECHNICAL REQUIREMENTS: 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 2.0 2.5 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
	L	Q		A, %	In 2 inches (50mm) or 4D.min.% L			L	Q	
	REQUIRED	205	240	515-690	45 35	40	50	140-223	100	
EFFECTIVE	280 284	301 305	586 594	61 54 60 55	59 60	79 77	174 174	265 265 265 260 260 220	62 64 63 64 63 62	

Mechanical properties tested in state of delivery

US - testing	yes	Results: ASME SA-388/SA-388M-10(ASTM A 388/A 388M-09)-FBH1/8";EN 10228-4 type 1a;class 3:OK	Manufacturer: PJSC DNIPROSPETSSTAL Date: 30.06.16 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.
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Radiation free; mercury free. No Weld or Weld repair.