



ИИ# А05049

С/94473


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№5152/P041107 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 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: 3 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.324642 PLANT ORDER № 8014905152
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 QMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 4.000in/101.60 mm L=5.610m/18.393ft L=5.620m/18.426ft Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-3276 lb/1486 kg (number of pcs) 1bund Q-3272 lb/1484 kg Delivery condition solution annealed :1900° F(1040° C) water 30minutes 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 № A05049	.020	.47	1.31	.036	.024	16,88	10.35	2.11	.079	.23	.06	.13	.005	.10	.014	.025	.008	.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 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																			
	REQUIRED	205		240	515-690			40 -	40											50	140-217	100	-						
EFFECTIVE	302	331	559	60 -	59	79	163	211 211 211	-																				
	304	336	561	60 -	59	78	163	205 205 205	-																				

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 10308 type 1a; class 3:OK										Manufacturer: PrJSC DNIPROSPETSSTAL Date: 05.09.17 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.

2006 06/18