



C215981


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL. № 390-11 SPEC.№9071/PO43762 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, 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-10 GR 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; NACF MR 0175-03; NACF MR 0103-10	Sheets:5 Sheet: 4 INSPECTION CERTIFICATE EN10204/3.1 Nr.333842 PLANT ORDER № 8014909071
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 GMS 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 13.000in/330.20 mm L=9.574 ft/2.920m L=11.672 ft/3.560m Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-4497 lb/2040 kg (number of pcs) 1bund Q-5476 lb/2484 kg
			Delivery condition solution annealed :1940° F(1066° C)water 30minutes 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 № A05970	.018	.47	1.43	.040	.024	16.89	10.27	2.05	.077	.27	.04	.05	.005	.11	.01	.029	.0093	.0023

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:																			
MECHANICAL PROPERTIES	Yield Strength, (N/mm²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm²)	Elongation		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J		Macrostructure – GOOD GRAIN SIZE : 5 to ASTM F 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																			
	L	Q		L	Q			L	Q																				
REQUIRED	205	240	515-690	45 35	40	50	140-217	100	60																				
EFFECTIVE	280	306	558	60 56	60	75	167	215 215 215	61 61 61																				

Mechanical properties tested in state of delivery			Manufacturer: PrJSC DNIPROSPETSSTAL Date: 18.05.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.									
US - testing	yes	Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type 1a; class 3:OK										
Radiation free; mercury free. No Weld or Weld repair.												

ANS