




PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№7683/PO42853-ED 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-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.329586 PLANT ORDER № 8014907683										
	 QMS Certified		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 11.000in/279.40 mm L=15.049 ft/4.590m L=14.066 ft/4.290m Grade: 316/316L/1.4401/1.4404						QUANTITY: (number of pcs)		1bund Q-5031 lb/2282 kg 1bund Q-4727 lb/2144 kg		Delivery condition solution annealed : 1922 ^o F(1050 ^o 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																					
№ A05572	.022	.44	1.29	.040	.027	16,78	10.14	2.09	.079	.26	.03	.05	.005	.09	.01	.030	.0082	.0027			
DIN EN 10002-1, ASTM A370-09																					
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 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											
				A ₅ % L	Q			L	Q												
	REQUIRED	205	240	515-690	45	35	40	50	140-223											100	60
EFFECTIVE	282	304	576	59	48	58	75	170	193	193	193	66	66	66							
Mechanical properties tested in state of delivery																					
US - testing		yes	Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type Ia; class 3:OK																		
Radiation free; mercury free. No Weld or Weld repair.																					
Manufacturer: PrJSC DNIPROSPETSSTAL Date: 22.01.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																					