




C240609

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№1897/PO45605 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; NACE MR 0175-03; NACE MR 0103-10										Sheets:7 Sheet: 2 INSPECTION CERTIFICATE EN10204/3.1 Nr.344691 PLANT ORDER № 8014901897								
	 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 18.750in/476.25 mm L=4.902 ft/1.495m L=5.082 ft/1.550m Grade: 316/316L/1.4401/1.4404										QUANTITY: 1bund Q-4802 lb/2178 kg (number of pcs) 1bund Q-4969 lb/2254 kg					
												Delivery condition solution annealed :1940 ⁰ F(1060 ⁰ C)water 25minutes 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 № A06949		.019	.42	1.33	.037	.028	16,95	10.43	2.07	.054	.32	.06	.03	.005	.14	.01	.026	.0094	.0023
DIN EN 10002-1, ASTM A370-09																			
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				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 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-7.5:1						
REQUIRED		205	240	515-690	45	35			40	50	140-217	100							60
EFFECTIVE		284	317	566	61	56	59	75	167	180	180	180							61
Mechanical properties tested in state of delivery																			
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.																			
Manufacturer: PrJSC DNIPROSPETSSTAL Date: 23.04.19 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																			

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