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## PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

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		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№7107/PO48147 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.355883 PLANT ORDER № 8014907107								
 QMS 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+AKP Round 15.000in/381.00 mm L=3.120m/10.230ft Grade: 316/316L/1.4401/1.4404										QUANTITY: (number of pcs) 1bund Q-6376 lb/2892 kg  Delivery condition solution annealed :1904°F(1040°C)water 36minutes 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 № A08383		.022	.42	1.40	.039	.025	16.66	10.26	2.06	.062	.32	.05	.06	.013	.12	.01	.030	.012	.0022	
DIN EN 10002-1,ASTM A370-09																				
MECHANICAL PROPERTIES		Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation A <sub>5</sub> % L Q		In 2 inches (50mm) or 4D,min,% L	Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J L Q		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 Ratio of reduction-6.3:1								
REQUIRED		205	240	515-700	45 35	40	50	140-217	100	60										
EFFECTIVE		276	308	562	60 53	59	77	167	204 204 204	61 61 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.																				
										Date: 08.04.2020Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospsstal" Phone number +380612834255 e-mail:info@dss.com.ua http://www.dss-ua.com										

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