



C240609

**PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, 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-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	<b>Sheets:7</b> <b>Sheet: 2</b> <b>INSPECTION CERTIFICATE EN10204/3.1 Nr.344691</b> <b>PLANT ORDER № 8014901897</b>
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	<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. <b>STEEL MAKING PROCESS: EAF + AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 18.750in/476.25 mm L=4.902 ft/1.495m L=5.082 ft/1.550m <b>Grade: 316/316L/1.4401/1.4404</b>	<b>QUANTITY:</b> (number of pcs) <b>1bund Q-4802 lb/2178 kg</b> <b>1bund Q-4969 lb/2254 kg</b>
			<b>Delivery condition</b> solution annealed :1940 <sup>0</sup> F(1060 <sup>0</sup> 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										<b>TECHNICAL REQUIREMENTS:</b> 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								
MECHANICAL PROPERTIES	Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J										
	L	Q		As %	In 2 inches (50mm) or 4D, min. % L			L	Q									
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 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	Manufacturer:PrJSC DNIPROSPETSSTAL Date: 23.04.19 <b>Manager of quality assurance department - V. Kapaieva</b> Signed:  Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			

ANS