



C256722


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

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№4721/PO47340 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; <b>NACE MR 0175-03; NACE MR 0103-10</b>		Sheets: <b>11</b> Sheet: <b>6</b> <b>INSPECTION CERTIFICATE EN10204/3.1 Nr.351763</b> PLANT ORDER № 8014904721
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 GMS Certified	CUSTOMER <b>DSS INTERNATIONAL</b> SA Switzerland	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 15.000in/381.00 mm L=2.430m/7.967ft L=2.590m/8.492ft <b>Grade: 316/316L/1.4401/1.4404</b>	QUANTITY: <b>1bund Q-4974 lb/2256 kg</b> (number of pcs) <b>1bund Q-5287 lb/2398 kg</b>
			Delivery condition solution annealed :1922 <sup>0</sup> F(1050 <sup>0</sup> 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 <b>№ A07839</b>	.021	.38	1.30	.035	.024	16.85	10.25	2.05	.065	.35	.06	.07	.005	.16	.01	.030	.010	.0023

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:														
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		A <sub>5</sub> %	In 2 inches (50mm) or 4D, min, % L			L	Q	A				B				C				D		
REQUIRED	205	240	515-700	45	35	40	50	140-217	100	60	Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A)													
EFFECTIVE	284	310	590	60	55	59	75	174	201	201	201	66	66	66	thin thick thin thick thin thick thin thick 2.0 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 Ratio of reduction-6.13:1									

Mechanical properties tested in state of delivery			Date: 29.11.19 <b>Manager of quality assurance</b> department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospestal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com									
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.												

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