



C299061

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

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№2608/PO51243 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, CL1; ASTM A320/A320M-08 GR B8M, CL1; ASME SA-320/SA-320M-10 GR B8, CL1; NACE MR 0175-03; NACE MR 0103-10										<b>INSPECTION CERTIFICATE EN10204/3.1 Nr.370941</b> PLANT ORDER № 8014902608							
 GIMS Certified		<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 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=8.426ft/2.570m L=8.443 ft/2.575m <b>Grade: 316/316L/1.4401/1.4404</b>										<b>QUANTITY:</b> (number of pcs) <b>1bund Q-5291 lb/2400 kg</b> <b>1bund Q-5317 lb/2412 kg</b>  Delivery condition solution annealed :1940° F(1060°C)water 34minutes 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 № A09969		.024	.44	1.37	.040	.027	16.79	10.25	2.06	.074	.22	.06	.05	.005	.10	.01	.029	.0076	.0023
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		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J		<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 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-6.4:1							
						A <sub>5</sub> , % L  Q	In 2 inches (50mm) or 4D, min, % L			L	Q								
REQUIRED	205	240	515-690	45  35	40	50	140-217	100	60										
EFFECTIVE	289	323	554	61  54	60	79	163	213 213 213	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: 18.06.2021 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com									

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