



C277650

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

	Contract No. : 20002 TECHN.PROTOCOL № 390-11 SPEC.№9684/PO49596 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										<b>INSPECTION CERTIFICATE EN10204/3.1 Nr.363163</b> PLANT ORDER № 8014909684																			
		<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+AOB</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 15.000in/381.00 mm L=7.639ft/2.330m L=7.590 ft/2.315m <b>Grade: 316/316L/1.4401/1.4404</b>										<b>QUANTITY:</b> (number of pcs) <b>1bund Q-4788 lb/2172 kg</b> <b>1bund Q-4744 lb/2152 kg</b>																
<b>ANALYSIS, %</b>												C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B	
<b>REQUIRED</b>												<.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			
<b>CAST № A09131</b>												.020	.43	1.30	.037	.025	17.06	10.15	2.08	.07	.27	.05	.06	.005	.13	.011	.030	.0095	.0022	
<b>DIN EN 10002-1, ASTM A370-09</b>												<b>MECHANICAL PROPERTIES</b>		Yield Strength, (N/mm <sup>2</sup> ) <b>R0.2% R 1.0%</b>	Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation A <sub>5</sub> % L Q In 2 inches (50mm) or 4D, min, % L		Reducti on of area, Z % L	Brinell Hardness HB	Impact strength, KV, J L Q		<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 2.5 2.0 2.0 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-6.3:1 Date: 06.11.2020 <b>Manager of quality assurance department</b> - V. Kapaieva Signed: Zaporozh'ye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com								
<b>REQUIRED</b>												205	240	515-690	45 35	40	50	140-217	100	60										
<b>EFFECTIVE</b>												278	301	576	61 54	58	77	170	190 190 190	64 64 64										
<b>Mechanical properties tested in state of delivery</b>																														
<b>US - testing</b>		yes	<b>Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type 1a; class 3: OK</b>																											
<b>Radiation free; mercury free. No Weld or Weld repair.</b>																														

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