



C302652

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

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 3055/PO51518 DIN EN 10088-3-05, DIN EN 10272-08, AD2000-Merkblatt W2; AD 2000-Merkblatt W10; 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 B8M, CL 1; NACE MR 0175-03; NACE MR 0103-10										<b>Sheets:3</b> <b>Sheet: 1</b>							
	<b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 371973</b> PLANT ORDER № 8014903055																	
	<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> SA Switzerland		<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионноустойчивых (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 5.000in/127.00 mm L=5.300/17.000ft L=5.080m/17.000ft <b>Grade: 316/316L/1.4401/1.4404</b>										<b>QUANTITY:</b> (number of pcs)		<b>1bund Q-5957lb/2702 kg</b> <b>1bund Q-1160lb/526 kg</b>			
	<b>Delivery condition</b> solution annealed : 1900 <sup>0</sup> F(1040 <sup>0</sup> C) water 30minutes термообработка: закалка в воду																	
<b>ANALYSIS, %</b>																		
	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 № A10115	.020	.43	1.33	.040	.022	16.78	10.19	2.06	.073	.28	.05	.06	.005	.10	.01	.034	.009	.0023
DIN EN 10002-1, ASTM A370-09																		
<b>MECHANICAL PROPERTIES</b>	<b>Yield Strength, (N/mm<sup>2</sup>)</b> R0.2% R 1.0%		<b>Tensile Strength, Rm, (N/mm<sup>2</sup>)</b>	<b>Elongation</b> A <sub>5</sub> % L Q		<b>Reduction of area, Z %</b> L	<b>Brinell Hardness HB</b>	<b>Impact strength, KV, J</b> 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 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 Ratio of reduction-22.3:1								
	REQUIRED	205	240	515-700	40 -	40	50	140-217	100	-								
EFFECTIVE	286 291	315 323	580 580	61 - 62 -	58 59	75 77	170 170	220 220 220 224 224 224	-									
Mechanical properties tested in state of delivery																		
US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK										Date: 20.07.2021 <b>Manager of quality assurance</b> 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						
Radiation free; mercury free. No Weld or Weld repair.																		

Provided by CPA

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