

C309389

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

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 3311/PO51685 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>INSPECTION CERTIFICATE EN10204/3.1 Nr. 374318</b> PLANT ORDER № 8014903311											
		<b>CUSTOMER</b> DSS INTERNATIONAL SA Switzerland										<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (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=5.220/17.000ft L=5.230m/17.000ft <b>Grade: 316/316L/1.4401/1.4404</b>						<b>QUANTITY:</b> (number of pcs) <b>1bund Q-3510 lb/1592kg</b> <b>1bund Q-2354 lb/1068 kg</b>					
												Delivery condition 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				
<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</b> № A10275		.023	.45	1.50	.038	.021	17.01	10.27	2.04	.075	.29	.06	.04	.005	.14	.01	.035	.009	.0022				
DIN EN 10002-1, ASTM A370-09																							
<b>MECHANICAL PROPERTIES</b>		<b>Yield Strength,</b> (N/mm <sup>2</sup> ) R0.2% R 1.0%		<b>Tensile Strength,</b> Rm, (N/mm <sup>2</sup> )		<b>Elongation</b>		<b>Reduction of area,</b> Z, % L	<b>Brinell Hardness</b> HB	<b>Impact strength,</b> 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 1.0 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											
						A <sub>5</sub> , % L Q	In 2 inches (50mm) or 4D, min, % L			L	Q												
<b>REQUIRED</b>		205	240	515-700	40 -	40	50	140-217	100	-													
<b>EFFECTIVE</b>		288 284	331 330	579 580	62 - 63 -	61 61	79 79	170 170	240 240 240 241 241 241	-													
Mechanical properties tested in state of delivery																							
<b>US - testing</b>		yes	<b>Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3: OK</b>																				
Radiation free; mercury free. No Weld or Weld repair.																							
Date: 03.10.2021 <b>Manager of quality assurance</b> <b>department - V. Kapaieva</b> Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dnipropetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com																							

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