



C299062

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

	Contract No. : 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 2327/PO51076 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(EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8,CL 1(EXC PAR 7.3) ;NACE MR 0175-03;NACE MR 0103-10										<b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 371167</b> PLANT ORDER № 8014902327							
		<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>					<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 4.000in/101.60 mm L=5.390/17.672ft <b>Grade: 316/316L/1.4401/1.4404</b>					<b>QUANTITY:</b> (number of pcs) <b>1bund Q-3607 lb/1636kg</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
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 № A10016	.020	.44	1.36	.039	.024	16.82	10.25	2.07	.076	.32	.06	.04	.005	.13	.01	.024	.010	.0023
DIN EN 10002-1,ASTM A370-09																		
<b>MECHANICAL PROPERTIES</b>		Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%		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 2.0 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-29.8:1				
REQUIRED	205	240	515-690	40 -	40	50	140-217	100	-									
EFFECTIVE	290	325	568	62 -	60	79	167	215 215 215	-									
Mechanical properties tested in state of delivery																		
US - testing	yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK										Date: 25.06.2021 <b>Manager of quality assurance</b> department - V. Kapaieva 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						
Radiation free; mercury free. No Weld or Weld repair.																		