



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

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 7107/PO48147 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. 355247</b> PLANT ORDER № 8014907107
	CUSTOMER <b>DSS INTERNATIONAL</b> SA Switzerland	

 QMS Certified	<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:</b> Электродуговая печь+АКР Round 4.000in/101.60 mm L=5.620/18.426ft L=5.610m/18.393ft <b>Grade: 316/316L/1.4401/1.4404</b>	QUANTITY: <b>1bund Q-2447 lb/1110 kg</b> (number of pcs) <b>1bund Q-4074 lb/1848 kg</b>
		Delivery condition solution annealed :1900 <sup>0</sup> F(1040 <sup>0</sup> C) water 30minutes 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 № A08357	.018	.42	1.41	.038	.024	17.02	10.29	2.10	.07	.34	.06	.05	.005	.12	.01	.037	.009	.0026

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:										
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												
	L	Q		A <sub>5</sub> %	In 2 inches (50mm) or 4D, min, % L			L	L	Q	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 2.5 2.0 0.0 0.0 1.0 1.0									
REQUIRED	205	240	515-690	40	-	40	50	140-217	100	-	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									
EFFECTIVE	275	294	574	61	-	59	76	170	194	194	194	-								
	280	301	580	60	-	59	78	170	197	197	197	-								

US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK	Date: 19.03.2020 Manager of quality assurance department - V. Kapaieva 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.			

