



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

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 4721/P047340 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 B8,CL1;NACE MR 0175-03;NACE MR 0103-10	Sheets: 9                      Sheet: 8 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 350991</b> PLANT ORDER № 8014904721
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 GMS Certified	<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 3.75 in/95.25 mm L=5.60m/18.361ft; L=5.60m/18.361ft; L=3.89m/12.754ft <b>Grade: 316/316L/1.4401/1.4404</b>	<b>QUANTITY:</b> (number of pcs) 1bund Q-2870 lb/1302kg 1bund Q-2870 lb/1302kg 1bund Q-1001 lb/454 kg	Delivery condition solution annealed :1900°F(1040°C)water 30minutes термообработка:закалка в воду
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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 № A07848	.021	.49	1.42	.040	.020	16.88	10.31	2.07	.072	.28	.05	.06	.005	.10	.01	.031	.0094	0023

DIN EN 10002-1,ASTM A370-09										<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-35.1:1									
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		A5%	In 2 inches (50mm) or 4D,min,% L			L	Q										
REQUIRED	205	240	515-690	40	-	40	50	140-217	100										
EFFECTIVE	290 283	322 321	562 561	61	-	60	79 79	167 167	217 217 217 214 214 214	-									

US - testing	yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type Ia;class 3:OK	Date: 04 11 19 Manager of quality assurance department Signed - V. Kapaieva 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
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Radiation free; mercury free. No Weld or Weld repair.

