

I283777
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PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No. : 20002 TECHN PROTOCOL № 390-11 SPEC.№ 3055/PO51518 DIN EN 10688-3-05, 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	Sheets:3 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr. 371973 PLANT ORDER № 8014903055
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	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 5.000m/127.00 mm L=5.300/17.000ft L=5.080m/17.000ft Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-59571b/2702 kg (number of pcs) 1bund Q-11601b/526 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 № 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										TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table style="width:100%; text-align: center;"> <tr> <td></td><td>A</td><td>B</td><td>C</td><td>D</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td> </tr> <tr> <td>3.0</td><td>2.0</td><td>2.0</td><td>1.0</td><td>0.0</td><td>0.0</td><td>1.0</td><td>1.0</td><td></td><td></td> </tr> </table> 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	B	C	D						thin	thick	thin	thick	thin	thick	thin	thick	thin	thick	3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0		
	A	B	C	D																																													
thin	thick	thin	thick	thin	thick	thin	thick	thin	thick																																								
3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0																																										
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J																																									
	A ₅ % L	Q		In 2 inches (50mm) or 4D, min, % L	L			Q																																									
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	-																																								

US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a, class 3-OK
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Radiation free; mercury free. No Weld or Weld repair.	Date 20.07.2021 Manager of quality assurance department - V. Kapateva 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
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