

C297121

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 1859/PO50615 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	Sheets: 4 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr. 370846 PLANT ORDER № 8014901859
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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 ВЫПЛИВКИ: Электродуговая печь+АКР Round 6.250in/158.75 mm L=15.180ft/4.630 m L=15.508ft/4.730 m Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-1658 lb/752 kg (number of pcs) 1bund Q-1693 lb/768 kg Delivery condition solution annealed :1900 ⁰ F(1040 ⁰ 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 № A09881	.018	.44	1.34	.039	.024	16.82	10.21	2.07	.066	.28	.05	.05	.005	.13	.012	.032	.0087	.0022

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>A</td><td>B</td><td>C</td><td>D</td> </tr> <tr> <td>thin</td><td>thick</td><td>thin</td><td>thick</td> </tr> <tr> <td>3.0</td><td>2.0</td><td>1.0</td><td>0.0</td> </tr> <tr> <td>thick</td><td>thin</td><td>thick</td><td>thin</td> </tr> <tr> <td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</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-13.5:1										A	B	C	D	thin	thick	thin	thick	3.0	2.0	1.0	0.0	thick	thin	thick	thin	1.0	1.0	1.0	1.0
A	B	C	D																																				
thin	thick	thin	thick																																				
3.0	2.0	1.0	0.0																																				
thick	thin	thick	thin																																				
1.0	1.0	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 %	Brinell Hardness HB	Impact strength, KV, J																															
				A ₅ %	L Q			L	Q																														
REQUIRED	205	240	515-700	40	-	40	50	140-217	100	-																													
EFFECTIVE	280	319	570	60	-	59	75	167	220 220 220	-																													

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: 15.06.2021 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss.com.ua
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Oct 19/21

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