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PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№0111/PO44618 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:3 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.337700 PLANT ORDER № 8014900111																							
 <p>GMS Certified</p>		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+ADO СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР Round 6.250in/158.75 mm L=5.650m/18.525ft Grade: 316/316L/1.4401/1.4404					QUANTITY: (number of pcs) 1bund Q-2028 lb/920 kg Delivery condition solution annealed :1900° F(1040°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 № A06341		.020	.43	1.29	.040	.027	16,87	10.20	2.03	.064	.29	.05	.06	.005	.12	.01	.026	.0108	.0025																
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 border="1"> <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>2.5</td> <td>1.5</td> <td>1.5</td> <td>1.0</td> </tr> <tr> <td>0.0</td> <td>0.0</td> <td>0.0</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-15.1:1										A	B	C	D	thin	thick	thin	thick	2.5	1.5	1.5	1.0	0.0	0.0	0.0	1.0
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MECHANICAL PROPERTIES		Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation As% L Q		In 2 inches (50mm) or 4D,min,% L	Reduction of area, Z% L	Brinell Hardness HB	Impact strength, KV, J L Q																									
REQUIRED		205	240	515-690	45 -	40	50	140-217	100	-																									
EFFECTIVE		280	317	563	62 -	57	77	167	230 230 230	-																									
Mechanical properties tested in state of delivery																																			
US - testing		yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK																																
Radiation free; mercury free. No Weld or Weld repair.										Manufacturer:PrJSC DNIPROSPETSSTAL Date: 07.09.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																									

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