




C212996

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 7683/PO42853-ED 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										Sheets:3 INSPECTION CERTIFICATE EN10204/3.1 Nr. 329829 PLANT ORDER № 8014907683																						
	 GMS Certified		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 5.000in/127.00 mm L=5.630m/18.459ft L=5.630m/18.459ft Grade: 316/316L/1.4401/1.4404		QUANTITY: (number of pcs) 1bund Q-3845 lb/1744 kg 1bund Q-2562 lb/1162 kg																		
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 № A05575	.018	.44	1.36	.039	.024	17.28	10.24	2.07	.068	.32	.05	.08	.005	.11	.015	.026	.0096	.0025															
DIN EN 10002-1, ASTM A370-09																																	
MECHANICAL PROPERTIES	Yield Strength, (N/mm²) R _{0.2} % R 1.0%		Tensile Strength, R_m, (N/mm²)		Elongation A ₅ % 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	40	-	40	50	140-217	100	-																						
	EFFECTIVE	285	308	580	60	-	60	79	170	238	238	238	-																				
	281	310	576	61	-	59	79	170	240	240	240	-																					
MECHANICAL PROPERTIES TESTED IN STATE OF DELIVERY										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>2.0</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								A	B	C	D	thin	thick	thin	thick	2.0	1.5	1.5	1.0	0.0	0.0	0.0	1.0
A	B	C	D																														
thin	thick	thin	thick																														
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US - testing	yes	Results: ASTM A388/A388M)-FBH1/8"; EN 10308 type 1a; class 3:OK										Manufacturer: PrJSC DNIPROSPETSSTAL Date: 26.01.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																					
Radiation free; mercury free. No Weld or Weld repair.																																	

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