




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-10 GR 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												INSPECTION CERTIFICATE EN10204/3.1 Nr. 329586 PLANT ORDER № 8014907683						
 QMS 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 5.750in/146.05 mm L=5.650m/18.525ft L=5.670m/18.590ft Grade: 316/316L/1.4401/1.4404												QUANTITY: 1bund Q-3426 lb/1554 kg (number of pcs) 1bund Q-3435 lb/1558 kg				
Delivery condition solution annealed : 1900°F(1040°C) water 30minutes термообработка: закалка в воду																			
DIN EN 10002-1, ASTM A370-09																			
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 № A05540		.022	.44	1.29	.036	.025	16.89	10.29	2.08	.067	.28	.05	.09	.007	.12	.024	.024	.0093	.0024
MECHANICAL PROPERTIES		Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)		Elongation A ₅ % L Q		Reduction of area, Z, % L		Brinell Hardness HB		Impact strength, KV, J L Q		TECHNICAL REQUIREMENTS: 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 2.0 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					
REQUIRED		205	240	515-690	40 -	40	50	140-223	100	-									
EFFECTIVE		284 290	308 319	572 577	62 - 61 -	60 60	77 77	170 170	215 215 215 207 207 207	-									
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: 22.01.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.					