



PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 9033/PO43694 DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-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: 5 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr. 333842 PLANT ORDER № 8014909033
	 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 3.750m/95.25 mm L=5.570m/18.262ft L=5.340m/17.508ft L=5.570m/18.262ft L=5.390m/17.672ft Grade: 316/316L/1.4401/1.4404
		QUANTITY: (number of pcs)	1bund Q-2147 lb/974 kg 1bund Q-683 lb/310 kg 1bund Q-3571 lb/1620 kg 1bund Q-697 lb/316 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 № A05971	.026	.45	1.42	.040	.025	16.94	10.25	2.09	.065	.28	.05	.16	.005	.09	.011	.025	.0086	.0024

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:												
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														
	A5%	L		In 2 inches (50mm) or 4D, min, % L	Q			L	Q	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 3.0 2.0 3.0 2.0 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	140-217	100	-												
EFFECTIVE	304	341	555	59	-	58	78	163	207	207	207	-										
	308	347	562	60	-	59	78	163	205	205	205	-										
Mechanical properties tested in state of delivery																						

US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type Ia; class 3:OK	Manufacturer: PrJSC DNIPROSPETSSTAL Date: 18.05.18 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			