




C160759

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	<p>Contract No.: 20002 TECHN. PROTOCOL № 390-11 SPEC. № 0789/PO037990 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-10 GR B8M, CL 1; 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</p>	<p>Sheets: 3 Sheet: 1 INSPECTION CERTIFICATE EN10204/B.1 Nr.307140 PLANT ORDER № 8014900789</p>	
	<p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p>	<p>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 7.000in/177.80 mm L=17.672ft/5.390m L=17.639ft/5.380m Grade: 316/316L/1.4401/1.4404</p>	<p>QUANTITY: 1bund Q-2429 lb/1102 kg (number of pcs) 1bund Q-2425 lb/1100 kg</p> <p>Delivery condition solution annealed : 1900°F (1040°C) water 30minutes термообработка: закалка в воду</p>

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 № A03317	.018	.42	1.34	.038	.020	17,10	10.30	2.08	.062	.21	.04	.08	.005	.06	.017	.032	.0078	.0011

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:										
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R L0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, KV, J		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 2.5 1.5 1.5 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа										
	L	Q		A ₅ , %	In 2 inches (50mm) or 4D.min.% L			L	L											Q
REQUIRED	205	240	515-690	45	35	40	50	140-217	100	60										
EFFECTIVE	288 287	329 326	569 567	59	52 59	58 53	79 79	167 167	216 209 209 211 216 212	73 85 76 78 80 75										

Mechanical properties tested in state of delivery			Manufacturer: PJSC DNIPROSPETSSTAL Date: 30.04.16 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.									
US - testing	yes	Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBH1/8"; EN 10308 type 1a; class 3: OK										
Radiation free; mercury free. No Weld or Weld repair.												