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PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No. : 20002 TECHN.PROTOCOL № 390-11 SPEC.№2201/P045207 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 5639H-07;AMS 5647H-07;ASTM A193/A193M-10GR B8,CL1; ASME SA-193/SA-193M-10 GR B8,CL 1 ;ASTM A320/A320M-08 GR B8,CL 1;ASME SA-320/SA-320M-10 GR B8,CL1;NACE MR 0175-03;NACB MR 0103-10	Sheets:6 Sheet: 2 INSPECTION CERTIFICATE EN10204/3.1 Nr.312794 PLANT ORDER № 8014902201
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 <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+AOD. СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 6.250in/158.75 mm L=4.890 m/16.033 ft; Grade: 304/304L/1.4301/1.4307	QUANTITY: 1bund Q-5137 lb/2330 kg (number of pcs)
			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	18.00-19.50	8.00-10.00	<.30	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A03903	.022	.47	1.56	.035	.025	18,30	8.28	.20	.073	.22	.09	.07	.005	.07	.014	.065	.009	.001

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) 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									
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											
	L	Q		In 2 inches (50mm) or 4D,min,% L	L			Q											
REQUIRED	205	230	515-700	45 -	40	50	140-223	100	-										
EFFECTIVE	288 290	300 304	560 563	58 - 58 -	57 57	73 73	167 167	228 228 228 224 224 224	- -										

Mechanical properties tested in state of delivery		US - testing yes		Results: ASME SA-388/SA-388M-10(ASTM A 388/A 388M-09)-FBH1/8";FN 10308 type 1a;class 3:OK	Manufacturer:PJSC DNIPROSPETSSTAL Date: 09.10.16 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.
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Radiation free; mercury free. No Weld or Weld repair.

