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PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№0203/P056045 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00; 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-10 GR B8, CL1; ASME SA-193/SA-193M-10 GR B8, CL1; ASTM A320/A320M-08 GR B8, CL1; ASME SA-320/SA-320M-10 GR B8, CL1; NACE MR 0175-03; NACE MR 0103-10	Sheets: 3 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.337033 PLANT ORDER № 8014900203
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 <p>GMS Certified</p>	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 11.000in/279.40 mm L=4.27 m/14.000ft Grade: 304/304L/1.4301/1.4307	QUANTITY: 1bund Q-4705 lb/2134 kg (number of pes) Delivery condition solution annealed : 1922°F(1050°C) water 25minutes термообработка: закалка в воду
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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 № A06306	.019	.58	1.52	.040	.024	18.28	8.13	.20	.055	.25	.06	.14	.005	.07	.01	.067	.0066	.002

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:									
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R _{0.2} R _{1.0} %		Tensile Strength, R _m , (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 3.0 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. Ratio of reduction-7.4:1									
	L	Q		In 2 inches (50mm) or 4D min. % L	L			L	L										
REQUIRED	205	230	515-700	45 35	40	50	140-223	100	60										
EFFECTIVE	297 299	309 312	570 572	59 47 59 47	58 58	78 78	167 167	196 196 196 191 191 191	65 65 65 64 64 64										

Mechanical properties tested in state of delivery			US - testing yes Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type 1a, class 3:OK	Manufacturer: PrJSC DNIPROSPETSSTAL Date: 19.08.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.				