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SHZP № 19312

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№7878/P006622 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00; 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-10GR 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	Sheets: 9 Sheet: 7 INSPECTION CERTIFICATE EN10204/3.1 Nr.330015 PLANT ORDER № 8033907878
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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 8.500in/215.90 mm L=3.345m/10.967ft L=3.385m/11.098ft L=3.510m/11.508ft L=3.480m/11.410ft Grade: 316/316L/1.4401/1.4404	1bund Q-2191 lb/994 kg 1bund Q-2253 lb/1022 kg (number of pcs) 1bund Q-2324 lb/1054 kg 1bund Q-2306 lb/1046 kg
			Delivery condition solution annealed :1922° F(1050°C) water 20minutes 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 № A05579	.019	.48	1.30	.037	.022	17,13	10.27	2.07	.065	.38	.07	.04	.006	.16	.025	.030	.0094	.0022

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		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 2.0 2.5 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	45 35			40	50										
EFFECTIVE	278	320	568	62 56	60	77	167	247 247 247	61 61 61	281	325	570	61 58	60	77	167	248 248 248	61 61 61	

Mechanical properties tested in state of delivery		US - testing yes Results: ASTM A388/A388M-FBH1/8"; EN 10228-4 type 1a; class 3: OK		Manufacturer: PrJSC DNIPROSPETSSTAL Date: 31.01.18 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.				

ANS