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PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE		Contract No.: 20002 TECHN PROTOCOL № 390-11 SPEC №4668/P033536-ED DIN EN 10088-3-05; DIN EN 10272-08; DIN EN 10222-5-00; ASTM A182/A182M-10; ASME SA-182M-10; ASTM A276-10; ASTM A314-08; ASTM A479/A479M-10; ASME SA-479/A479M-10; ASTM A484/A484M-10; AMS-QQ-S-763B-06 Cond.A; AMS 5648K-07; AMS 5653F-07; ASTM A193/A193M-10 GR B8, CL1; ASME SA-193/A-193M-10 GR B8, CL1; ASTM A320/A320M-08 GR B8M, CL1; ASME SA-320/A-320M-10 GR B8, CL1; NACE MR 0175-03; NACE MR 0103-10		Sheets: 7 Sheet: 7 INSPECTION CERTIFICATE ENI02043.1 Nr.287092 PLANT ORDER № 8014904468																
 CUSTOMER DSS INTERNATIONAL SA Switzerland		PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled, и прутки из коррозионностойких (нержавеющих) сталей кованые, обточенные. STEEL MAKING PROCESS: EAF+AOD ЦИОКОЕ ВЕЛИКАКИ: инертноуглеродная печь+АКР Round 17,000mm/431.80 mm L=3,750m/12,295ft Grade: 316/316L/A 446/1/L 4404		QUANTITY: (number of pcs) 1bund Q-9894 1b/4488 kg Delivery condition solution annealed: 1940° F(1060° C) water 38minutes теплособработка: закалка в воду																
ANALYSIS, %		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	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 № A01105		.026	.39	1.31	.038	.027	16,85	10,25	2,04	.062	.24	.04	.12	.005	.08	.01	.035	.011	.001	
MECHANICAL PROPERTIES		DIN EN 10002-1, ASTM A370-09																		
REQUIRED	EFFECTIVE	Tensile Strength, Min. (N/mm²)		Elongation A ₅ % L Q		Reducti on of area, Z % L		Bimell hardness HB		Impact strength, KV, J L Q										
		205	240	45.35	40	50	140-223	100	60	262 273 271	66 66 66									
286	311	61.55	60	80	163	268 268 270	64 64 64													
288	320	61.55	60	81	163															
Mechanical properties tested in state of delivery																				
US - testing		Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBH1/5*-EN 10228-4 type Ia, class 3:OK																		
Radiation free; mercury free. No Weld or Weld repair.																				
TECHNICAL REQUIREMENTS: Macrostructure - GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) A thin thick thin thick thin thick thin thick B thin thick thin thick thin thick thin thick C 2.0 2.0 2.0 2.0 0.0 0.0 1.0 1.0 D ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test - OK												Manufacturer: PJSC DNIPROSPETSSTAL Date: 14.08.14 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.								