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Q200706

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№6708/P042154-ED 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 5648K-07; AMS 5653F-07; ASTM A193/A193M-10 GR 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, CL 1; NACE MR 0175-03; NACE MR 0103-10										Sheets:4 Sheet: 2							
	INSPECTION CERTIFICATE EN10204/3.1 Nr.326769 PLANT ORDER № 8014906708																	
 QMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland		PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 11.000in/279.40 mm L=4.410m/14.459ft Grade: 316/316L/1.4401/1.4404										QUANTITY: (number of pcs) 1bund Q-4894 lb/2220 kg					
	Delivery condition solution annealed :1922°F(1050°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	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A05318	.019	.45	1.39	.038	.025	16,95	10.21	2.08	.07	.30	.05	.07	.006	.08	.012	.030	.011	.0024
DIN EN 10002-1, ASTM A370-09																		
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		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 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								
				A ₅ % L	In 2 inches (50mm) or 4D, min, % L			L	Q									
	REQUIRED	205	240	515-700	45	35	40	50	140-217									
EFFECTIVE	280	321	571	61	56	60	79	167	216	216	216	61	61	61				
Mechanical properties tested in state of delivery																		
US - testing	yes	Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBH1/5"; EN 10228-4 type 1a; class 3:OK										Manufacturer: PrJSC DNIPROSPETSSTAL Date: 31.10.17 Manager of quality assurance department - V. Kapaieva. Signed: Zaporozhye Made in Ukraine.						
Radiation free; mercury free. No Weld or Weld repair.																		