




HT# A05049 SMT 4954

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		PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZH'YE, UKRAINE																	
Contract No.: 20002 TECHN. PROTOCOL № 390-11 SPEC. № 5152/P041107 DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-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-10 GR B8M, CL 1, 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: 1 of 4 INSPECTION CERTIFICATE EN10204/3.1 Nr. 324195 PLANT ORDER № 8014905152																	
 GMS Certified		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 3.25 in/82.55 mm L=5.650m/18.525ft, L=5.640m/18.492ft Grade: 316/316L/1.4401/1.4307																	
CUSTOMER DSS INTERNATIONAL SA Switzerland		QUANTITY: 1bund Q-3787 lb/1718 kg 1bund Q-2703 lb/1226kg 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	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A05049		.020	.47	1.31	.036	.024	16,88	10,35	2,11	.079	.23	.06	.13	.005	.10	.014	.025	.008	.0022
DIN EN 10002-1, ASTM A370-09																			
MECHANICAL PROPERTIES		Yield Strength, (N/mm²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm²)		Elongation		Reducti on of area, Z, %		Brinell Hardness HB		Impact strength, KV, J							
		L	Q	L	Q	L	Q	L	Q	L	Q	L	Q						
REQUIRED		205	240	515-690	40 -	40	50	140-217	100	-									
EFFECTIVE		280	301	590	60 -	58	77	174	230 230 230	235 235 235									
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"; EN 10308 type 1a; class 3:OK															
Radiation free; mercury free. No Weld or Weld repair.																			
Manufacturer: PrJSC DNIPROSPETSSTAL Date: 24.08.17 Manager of quality assurance department - V. Kapaieva Signed:										 Zaporozhye Made in Ukraine.									

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