




C220972

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN. PROTOCOL № 390-11 SPEC. № 9728/PO44311 DIN EN 10088-3-05, DIN EN 10272-08, 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: 8 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr. 336112 PLANT ORDER № 8014909728									
		CUSTOMER DSS INTERNATIONAL SA Switzerland			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 5.250in/133.35 mm L=18.361ft/5.600m L=18.328ft/5.590m Grade: 316/316L/1.4401/1.4404							QUANTITY: 1bund Q-1411 lb/640 kg (number of pcs) 1bund Q-4215 lb/1912 kg								
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 № A06221		.018	.38	1.35	.040	.024	16,77	10,20	2,07	.068	.32	.05	.06	.068	.13	.01	.026	.011	.0024	
DIN EN 10002-1, ASTM A370-09										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 2.0 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-20.8:1 Manufacturer: PrJSC DNIPROSPETSSTAL Date: 23.07.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.										
MECHANICAL PROPERTIES		Yield Strength, (N/mm ²) R _{0.2} % R 1.0%		Tensile Strength, R _m , (N/mm ²)	Elongation A ₅ % L Q In 2 inches (50mm) or 4D _{min} , % L		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J L Q											
REQUIRED		205	240	515-690	40 -	40	50	140-223	100											-
EFFECTIVE		273 275	300 309	568 569	60 - 60 -	60 59	77 77	167 167	204 204 204 201 201 201	-										
Mechanical properties tested in state of delivery																				
US - testing		yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK																	
Radiation free; mercury free. No Weld or Weld repair.																				

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