



C220876

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№9728/P044311 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,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:7 Sheet: 1							
											INSPECTION CERTIFICATE EN 10204/3.1 Nr.335735 PLANT ORDER № 8014909728							
 QMS Certified	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 5.000m/127.00 mm L=5.65 m/18.525ft; L=5.65 m/18.525ft; L=4.19 m/13.738ft; Grade: 316/316L/1.4401/1.4404										1bund Q-3849 lb/1746 kg 1bund Q-2566 lb/1164 kg 1bund Q-952 lb/432 kg					
													QUANTITY: (number of pcs) Delivery condition solution annealed :1900 ^o F(1040 ^o 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 № A06134	.019	.40	1.40	.040	.025	16,72	10.30	2.06	.066	.27	.05	.08	.01	.10	.012	.026	.0115	.0025
DIN EN 10002-1,ASTM A370-09																		
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R _{0.2} % R _{1.0} %		Tensile Strength, R _m , (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 Ratio of reduction-24.0:1								
				A ₅ % L	In 2 inches (50mm) or 4D,min.% L			L	Q									
	REQUIRED	205	240	515-690	45 -	40	50	140-217	100									
EFFECTIVE	281 284	304 306	557 560	59 - 59 -	58 58	73 73	163 163	200 200 200 197 197 197	- -									
Mechanical properties tested in state of delivery																		
US - testing	yes	Results: ASTM A388/A388M-FBI11/8";EN 10308 type 1a;class 3:OK																
Radiation free; mercury free. No Weld or Weld repair.										Manufacturer:PrJSC DNIPROSPETSSTAL. Date: 10.07.18 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.								



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