




C229108

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 9783/PO44380 DIN EN 10088-3-05,DIN EN 10272-08,AD2000-Merkblatt W2;AD 2000-Merkblatt W10;ASTM A 182/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 A 193/A 193M-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:3 Sheet: 3																									
 GMS Certified		CUSTOMER DSS INTERNATIONAL SA Switzerland										PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Loeser line.Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Лезер. STEEL MAKING PROCESS: EAF+ADO СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 7.750in/196.85 mm L=18.295ft/5.580m L=18.328ft/5.590m Grade: 316/316L/1.4401/1.4404										INSPECTION CERTIFICATE EN10204/3.1 Nr. 337700 PLANT ORDER № 8014909783															
QUANTITY:		1bund Q-3053 lb/1385 kg										(number of pcs)		1bund Q-3064 lb/1390 kg																							
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 № A06231																		.017	.49	1.30	.040	.024	16,87	10.15	2.06	.077	.32	.05	.05	.005	.12	.01	.031	.011	.0022		
DIN EN 10002-1,ASTM A370-09																		MECHANICAL PROPERTIES										TECHNICAL REQUIREMENTS:									
Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (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		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 2.1 1.2 1.5 1.0 0.0 0.0 1.0 1.0																							
REQUIRED		205 240		515-690		45 35 40		50		140-217		100 60		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-9.9:1																							
EFFECTIVE		289 313 291 315		551 553		61 53 60 53		59 58		79 80		163 163		187 187 187 183 183 183		65 65 65 63 63 63																					
Mechanical properties tested in state of delivery																		US - testing										yes									
Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK																		Manufacturer:PrJSC DNIPROSPETSSTAL Date: 07.09.18 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.																			
Radiation free; mercury free. No Weld or Weld repair.																																					

ANS