




C303502

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

1882

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№2327/P051076 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-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: 2 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.371012 PLANT ORDER № 8014902327																					
		CUSTOMER DSS INTERNATIONAL SA Switzerland			PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионноустойчих (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР Round 15.000in/381.00 mm L=16.721 ft/5.10 m Grade: 316/316L/1.4401/1.4404										QUANTITY: 1bund Q-10459lb/4744 kg (number of pcs) Delivery condition solution annealed :1940 ^o F(1060 ^o C)water 34minutes 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 № A09969	.024	.44	1.37	.040	.027	16.79	10.25	2.06	.074	.22	.06	.05	.005	.10	.01	.029	.0076	.0023															
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 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		45	35	40		50		140-217		100	60																		
EFFECTIVE		289 291	323 325	554 554		61	54	60 60		79 78		163 163		213	213	213	61	61	61														
Mechanical properties tested in state of delivery																																	
US - testing		yes		Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK																													
Radiation free; mercury free. No Weld or Weld repair.																																	
TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="1"> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> </tr> <tr> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>1.0</td> </tr> <tr> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> </tr> </table> 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-6.4:1 Date: 22.06.2021 Manager of quality assurance department - V. Kapaieva Signed:  Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospeetsstal" Phone number +380612834255 e-mail:info@dss.com.ua http://www.dss-ua.com																		A	B	C	D	thin	thick	thin	thick	2.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0
A	B	C	D																														
thin	thick	thin	thick																														
2.0	2.0	2.0	1.0																														
0.0	0.0	0.0	1.0																														

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