




C256722

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№4721/PO47340 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:11 Sheet: 6 INSPECTION CERTIFICATE EN10204/3.1 Nr.351763 PLANT ORDER № 8014904721
		CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 15.000in/381.00 mm L=2.430m/7.967ft L=2.590m/8.492ft Grade: 316/316L/1.4401/1.4404

	QUANTITY: (number of pcs)	1bund Q-4974 lb/2256 kg 1bund Q-5287 lb/2398 kg
	Delivery condition solution annealed :1922° F(1050° C)water 36minutes 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 № A07839	.021	.38	1.30	.035	.024	16.85	10.25	2.05	.065	.35	.06	.07	.005	.16	.01	.030	.010	.0023

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) <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 Ratio of reduction-6.13:1										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																																
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J																											
	A5%	L Q	In 2 inches (50mm) or 4D, min, % L		L			Q																											
REQUIRED	205	240	515-700	45	35	40	50	140-217	100	60																									
EFFECTIVE	284	310	590	60	55	59	75	174	201 201 201	66 66 66																									

Mechanical properties tested in state of delivery			Date: 29.11.19 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospestal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com									
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.												



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