




C265676

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN. PROTOCOL № 390-11 SPEC. № 7107/PO48147 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-10 GR 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 B8M, CL 1; NACE MR 0175-03; NACE MR 0103-10										INSPECTION CERTIFICATE EN10204/3.1 Nr. 355247 PLANT ORDER № 8014907107																								
 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 ВЫПЛИВКИ: Электродуговая печь+АКР Round 6.500in/165.10 mm L=5.530/18.131ft L=5.620m/18.426ft L=5.580m/18.295ft Grade: 316/316L/1.4401/1.4404										QUANTITY: (number of pcs) 1bund Q-2143 lb/972 kg 1bund Q-2174 lb/986 kg 1bund Q-2160 lb/980 kg Delivery condition solution annealed :1900 ⁰ F(1040 ⁰ 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 № A08337	.018	.43	1.43	.038	.024	16.82	10.38	2.08	.06	.26	.05	.07	.005	.10	.012	.030	.0096	.0024																	
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		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J L Q		TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="1" style="width: 100%; text-align: center;"> <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>1.5</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-13.5:1										A	B	C	D	thin	thick	thin	thick	2.0	1.5	2.0	1.0	0.0	0.0	0.0	1.0
	A	B	C	D																															
	thin	thick	thin	thick																															
2.0	1.5	2.0	1.0																																
0.0	0.0	0.0	1.0																																
REQUIRED	205	240	515-690	45	35	40	50	140-217	100	60																									
EFFECTIVE	298 303	318 321	555 559	60	54 55	59	77 77	163 163	200 196 200 200 196 196	61 61 61 61 61 61																									
Mechanical properties tested in state of delivery										Date: 19.03.2020 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dnipropetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com																									
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.																																			

ANS