



00 8.5
16 pcs C293206

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№1723/PO50555 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, 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,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	INSPECTION CERTIFICATE EN10204/3.1 Nr.369012 PLANT ORDER № 8014901723
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	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованые, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 8.500in/215.90 mm L=14.918 ft/4.550m L=13.934 ft/4.250m Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-3020 lb/1370 kg (number of pcs) 1bund Q-2826 lb/1282 kg	Delivery condition solution annealed :1922° F(1050° C) water 20minutes термообработка: закалка в воду
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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 № A09793	.020	.41	1.39	.036	.023	17.03	10.34	2.06	.074	.28	.06	.03	.005	.14	.01	.035	.0092	.0022

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 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>2.5</td><td>2.0</td><td>1.0</td><td>0.0</td> </tr> <tr> <td>0.0</td><td>0.0</td><td>1.0</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-7.2:1										A	B	C	D	thin	thick	thin	thick	2.5	2.0	1.0	0.0	0.0	0.0	1.0	1.0
A	B	C	D																																
thin	thick	thin	thick																																
2.5	2.0	1.0	0.0																																
0.0	0.0	1.0	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	515-690	45	35	40	50	140-217	100	60																									
EFFECTIVE	296 301	333 342	564 560	59	52	57	80	163	200 200 200 203 203 203	70 70 70 75 75 75																									

Mechanical properties tested in state of delivery		
US - testing	yes	Results: ASTM A388/A388M-FBH1/8"; EN 10228-4 type 1a; class 3: OK
Radiation free; mercury free. No Weld or Weld repair.		

Date: 26.04.2021 Manager of quality assurance department
 - V. Kapaieva Signed:
 Zaporozhye
 Melted and Produced in Ukraine.
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