



PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№0623/P050062 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-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 B8, CL1; NACE MR 0175-03; NACE MR 0103-10	INSPECTION CERTIFICATE EN10204/3.1 Nr.366188 PLANT ORDER № 8014900623
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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 кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 13.0in/330.20 mm L=10.262 ft/3.13 m; Grade: 316/316L/1.4401/1.4404	QUANTITY: 1bund Q-4846 lb/2198 kg (number of pcs) Delivery condition solution annealed :1922° F(1050° C) water 30minutes 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 № A09332	.021	.44	1.38	.037	.024	16.90	10.27	2.07	.066	.28	.06	.04	.005	.13	.021	.030	.0094	.0024

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>1.5</td><td>1.5</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-6.1:1										A	B	C	D	thin	thick	thin	thick	2.5	1.5	1.5	1.0	0.0	0.0	0.0	1.0
A	B	C	D																																
thin	thick	thin	thick																																
2.5	1.5	1.5	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																											
	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	278	306	568	58	49	57	73	163	198 198 198	64 64 64																									

Mechanical properties tested in state of delivery			Results: ASTM A388/A388M)-FBH1/5"; EN 10228-4 type 1a; class 3:OK	Date: 02.02.21 Manager of quality assurance department Signed: - V. Kapaieva Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospsststal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com
US - testing	yes	Radiation free; mercury free. No Weld or Weld repair.		



P.O.# 5804 Part# 10-FOE-80 Desc: 10" CPA 50E S-80 316 S/S

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