

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№3055/PO51518 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:3 Sheet: 3
		INSPECTION CERTIFICATE EN10204/3.1 Nr.371973 PLANT ORDER № 8014903055

	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 ВЫПЛИВКИ: Электродуговая печь+AKP Round 11.000in/279.40 mm L=14.000ft/4.270m L=14.000 ft/4.380m Grade: 316/316L/1.4401/1.4404	QUANTITY: (number of pcs) 1bund Q-4705 lb/2134 kg 1bund Q-4841 lb/2196 kg
			Delivery condition solution annealed :1958 ⁰ F(1070 ⁰ C)water 18minutes 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 № A10095	.020	.52	1.39	.037	.025	17.03	10.15	2.06	.069	.37	.05	.06	.005	.12	.012	.028	.010	.0022

DIN EN 10002-1,ASTM A370-09										TECHNICAL REQUIREMENTS:																				
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			Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) A B C D thin thick thin thick thin thick thin thick 3.0 2.0 2.0 1.0 0.0 0.0 1.0 1.0 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-7.4:1																			
	L	Q		In 2 inches (50mm) or 4D,min,% L	L			L	L	Q																				
REQUIRED	205	240	515-690	45	35	40	50	140-217	100	60																				
EFFECTIVE	281	327	562	63	58	61	77	167	230	230											230	61	61	61						

Mechanical properties tested in state of delivery			Date: 20.07.2021 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhyc Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospetsstal" 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.												

P.O. # 6218 Part # 08-FOE-40 Desc: 8" CPA 50E S-40 316 S/S