




C233811

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	<p>Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№1652/PO45380 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</p>	<p>Sheets:5 Sheet:5 INSPECTION CERTIFICATE EN10204/3.1 Nr.341437 PLANT ORDER № 8014901652</p>
 <p>QMS Certified</p>	<p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p> <p>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+AQP Round 18.750in/476.25 mm L=10.754 ft/3.280m Grade: 316/316L/1.4401/1.4404</p>	<p>QUANTITY: (number of pcs) 1bund Q-10494 lb/4760 kg</p> <p>Delivery condition solution annealed :1940°F(1060°C)water 30minutes термообработка:закалка в воду</p>

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 № A06796	.023	.40	1.30	.040	.026	16.80	10.23	2.07	.075	.40	.05	.07	.005	.11	.01	.027	.011	.0026

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 2.5 2.0 2.5 2.0 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-7.5:1													
	L	Q		A, %	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	270	310	573	59	48	58	80	167	190	190	80	80	80										

Mechanical properties tested in state of delivery			Manufacturer:PrJSC DNIPROSPETSSTAL Date: 08.01.19 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.									
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.												

ANS