



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-10 GR B8M.C 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.CL 1.NACE MR 0175-03.NACE MR 0103-10</p>	<p><b>Sheets:5</b> <b>Sheet:5</b>  <b>INSPECTION CERTIFICATE EN10204/3.1 Nr.341437</b>          PLANT ORDER № 8014901652</p>
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 <p>GMS Certified</p>	<p><b>CUSTOMER</b>  <b>DSS INTERNATIONAL</b>          SA Switzerland</p>	<p><b>PRODUCT DESCRIPTION</b>          Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные.  <b>STEEL MAKING PROCESS: EAF+AOD</b>  <b>СПОСОБ ВЫПЛАВКИ:</b> Электродуговая печь+АКР          Round 18.750in/476.25 mm L=10.754 ft/3.280m  <b>Grade: 316/316L/1.4401/1.4404</b></p>	<p><b>QUANTITY:</b>          (number of pcs) <b>1bund Q-10494 lb/4760 kg</b></p> <p>Delivery condition          solution annealed :1940° F(1060°C)water 30minutes          термообработка:закалка в воду</p>
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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 № 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 <sup>2</sup> ) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm <sup>2</sup> )	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									
	A5%	1. 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	270	310	573	59 48	58	80	167	190 190 190	80 80 80										

<p>US - testing</p>	<p>yes</p>	<p>Result: ASTM A388/A388M-FB1H1/5";EN 10228-4 type 1a;class 3:OK</p>	<p>Manufacturer:PrJSC DNIPROSPETSSTAL          Date: 08.01.19 <b>Manager of quality assurance department - V. Kaparjeva</b>          Signed:           Zaporozhye          Made in Ukraine.</p>
<p>Radiation free; mercury free. No Weld or Weld repair.</p>			

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