




C244207

**PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE**

	<p>Contract No.: 20002          TECHN.PROTOCOL № 390-11 SPEC.№2914/PO46181          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;<b>NACE MR 0175-03</b>;NACE MR 0103-10</p>	<p><b>INSPECTION CERTIFICATE EN10204/3.1 Nr.346135</b>          PLANT ORDER № 8014902914</p>
 GMS Certified	<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:Электродуговая печь+АКР</b>          Round 15.000in/381.00 mm L=8.033 ft/2.450m L=8.000 ft/2.440m  <b>Grade: 316/316L/1.4401/1.4404</b></p>
<p><b>QUANTITY:</b>           <b>1bund Q-5018 lb/2276 kg</b>          (number of pcs)       <b>1bund Q-4987 lb/2262 kg</b></p>		<p>Delivery condition          solution annealed :1950<sup>0</sup>F(1065<sup>0</sup>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 № A07299	.021	.47	1.38	.035	.027	16.85	10.24	2.07	.083	.34	.05	.08	.007	.12	.027	.029	.012	.0024

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 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-6.7:1 Manufacturer:PrJSC DNIPROSPETSSTAL Date: 07.06.19 <b>Manager of quality assurance department - V. Kapaieva</b> Signed:  Zaporozhye Made in Ukraine.																			
	A <sub>5</sub> , % 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	300	584	61 55	59	72	174	184 184 184	66 66 66																				
Mechanical properties tested in state of delivery																													
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