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

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№0111/PO44618 DIN EN 10088-3-05,DIN EN 10272-08.AD2000-Merkblatt W2:AD 2000-Merkblatt W10;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,CL 1;NACE MR 0175-03;NACE MR 0103-10	<b>Sheets:4</b> <b>Sheet: 1</b> <b>INSPECTION CERTIFICATE EN10204/3.1 Nr.337468</b> <b>PLANT ORDER № 8014900111</b>
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 GMS Certified	<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line.Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР</b> Round 6.250in/158.75 mm L=5.640m/18.492ft <b>Grade: 316/316L/1.4401/1.4404</b>	<b>QUANTITY:</b> (number of pcs) <b>1bund Q-4048 lb/1836 kg</b>
		<b>Delivery condition</b> solution annealed :1900° F(1040°C)water 30minutes 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 № A06341	.020	.43	1.29	.040	.027	16,87	10.20	2.03	.064	.29	.05	.06	.005	.12	.01	.026	.0108	.0025

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 1.5 1.5 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 Ratio of reduction-15.1:1																				
	L	Q		In 2 inches (50mm) or 4D,min,% L	L			Q	L											Q										
REQUIRED	205	240	515-690	45	-	40	50	140-217	100											-										
EFFECTIVE	280	317	563	62	-	57	77	167	230											230	230	-								
	282	329	567	61	-	57	77	167	226	226	226	-																		

Mechanical properties tested in state of delivery			Manufacturer:PrJSC DNIPROSPETSSTAL Date: 31.08.18 <b>Manager of quality assurance department</b> - V. Kapaieva Signed: Zaporozhye Made in Ukraine.
US - testing	yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK	
Radiation free; mercury free. No Weld or Weld repair.			

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