



C302652

**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,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 B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10	Sheets:3                      Sheet: 1 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 371973</b> PLANT ORDER № 8014903055
---	--	--

	CUSTOMER <b>DSS INTERNATIONAL</b> SA Switzerland	<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 5.000in/127.00 mm L=5.300/17.000ft L=5.080m/17.000ft <b>Grade: 316/316L/1.4401/1.4404</b>	QUANTITY: <b>1bund Q-5957lb/2702 kg</b> (number of pcs) <b>1bund Q-1160lb/526 kg</b>	Delivery condition solution annealed :1900 <sup>0</sup> F(1040 <sup>0</sup> 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 <b>№ A10115</b>	.020	.43	1.33	.040	.022	16.78	10.19	2.06	.073	.28	.05	.06	.005	.10	.01	.034	.009	.0023

DIN EN 10002-1,ASTM A370-09									
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	
				As % L	Q			In 2 inches (50mm) or 4D,min,% L	L
REQUIRED	205	240	515-700	40 -	40	50	140-217	100	-
EFFECTIVE	286 291	315 323	580 580	61 - 62 -	58 59	75 77	170 170	220 220 220 224 224 224	- -
Mechanical properties tested in state of delivery									

**TECHNICAL REQUIREMENTS:**  
 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
3.0	2.0	2.0	1.0
0.0	0.0	0.0	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-22.3:1

US - testing	yes	Results: ASTM A388/A388M-FBH1/8";EN 10308 type 1a;class 3:OK	Date: 20.07.2021 <b>Manager of quality assurance</b> department - V. Kapaieva                      Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dniprospetsstal" Phone number +380612834255 e-mail:info@dss.com.ua http://www.dss-ua.com
--------------	-----	--	--

Radiation free; mercury free. No Weld or Weld repair.



ANS