



C265672

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

 Contract No.: 20002  
 TECHN.PROTOCOL № 390-11 SPEC.№ 7107/PO48147  
 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 (EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8, CL 1 (EXC PAR 7.3); NACE MR 0175-03; NACE MR 0103-10

**INSPECTION CERTIFICATE EN10204/3.1 Nr. 355247**  
 PLANT ORDER № 8014907107

 **CUSTOMER**  
**DSS INTERNATIONAL**  
**SA Switzerland**

**PRODUCT DESCRIPTION**  
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф.  
**STEEL MAKING PROCESS: EAF+AOD**  
**СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР**  
 Round 4.000in/101.60 mm L=5.620/18.426ft L=5.610m/18.393ft  
**Grade: 316/316L/1.4401/1.4404**

**QUANTITY:** 1bund Q-2447 lb/1110 kg  
 (number of pcs) 1bund Q-4074 lb/1848 kg

**Delivery condition**  
 solution annealed : 1900<sup>0</sup>F(1040<sup>0</sup>C) water 30minutes  
 термообработка: закалка в воду

GMS Certified


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 № A08357	.018	.42	1.41	.038	.024	17.02	10.29	2.10	.07	.34	.06	.05	.005	.12	.01	.037	.009	.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 Ratio of reduction-29.8:1																				
	L	Q		In 2 inches (50mm) or 4D, min, % L	L			Q	L											Q										
REQUIRED	205	240	515-690	40	-	40	50	140-217	100											-										
EFFECTIVE	275	294	574	61	-	59	76	170	194											194	194	197	197	197						

Mechanical properties tested in state of delivery

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.

Date: 19.03.2020 Manager of quality assurance department - V. Kapaieva      Signed: 

Zaporozhye  
 Melted and Produced in Ukraine.  
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