


C303498

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

 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 коррозионноустойчивых (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 4.000in/101.60 mm L=5.460/18.000ft <b>Grade: 316/316L/1.4401/1.4404</b>	<b>Contract No.:</b> 20002 <b>TECHN.PROTOCOL №</b> 390-11 <b>SPEC.№</b> 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 (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	<b>Sheets:2</b> <b>Sheet: 2</b> <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 372531</b> <b>PLANT ORDER № 8014903055</b>
			<b>QUANTITY:</b> (number of pcs) <b>1bund Q-6314lb/2864kg</b>	<b>Delivery condition</b> 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 № A10134	.023	.47	1.40	.039	.024	16.86	10.24	2.12	.068	.26	.05	.05	.005	.14	.01	.031	.008	.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	
	L	Q		A <sub>5</sub> % L Q	In 2 inches (50mm) or 4D, min, % L			L	Q
REQUIRED	205	240	515-700	40 -	40	50	140-217	100	-
EFFECTIVE	274 279	316 320	550 553	58 - 58 -	57 57	73 73	163 163	199 199 199 196 196 196	- -

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.

**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	0.0
0.0	1.0	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

Date: 04.08.2021 **Manager of quality assurance**  
**department** - V. Kapaieva                      Signed:

Zaporozhye

Melted and Produced in Ukraine.

MELTED and MANUFACTURED

PrJSC " Dniprospsstal"

Phone number +380612834255

e-mail: [info@dss.com.ua](mailto:info@dss.com.ua)<http://www.dss-ua.com>


ANS