

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE



Contract No.: 20002

TECHN.PROTOCOL № 390-11 SPEC.№ 3311/PO51685

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

INSPECTION CERTIFICATE EN10204/3.1 Nr. 374318
PLANT ORDER № 8014903311



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 5.000in/127.00 mm L=5.220/17.000ft L=5.230m/17.000ft
Grade: 316/316L/1.4401/1.4404

QUANTITY: **1bund Q-3510 lb/1592kg**
(number of pcs) **1bund Q-2354 lb/1068 kg**

Delivery condition
solution annealed :1900⁰ F(1040⁰ 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 № A10275	.023	.45	1.50	.038	.021	17.01	10.27	2.04	.075	.29	.06	.04	.005	.14	.01	.035	.009	.0022

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z% ε	Brinell Hardness HB	Impact strength, KV, J	
	L	Q		A5% L	In 2 inches (50mm) or 4D, min, % L			L	Q
REQUIRED	205	240	515-700	40 -	40	50	140-217	100	-
EFFECTIVE	288 284	331 330	579 580	62 - 63 -	61 61	79 79	170 170	240 240 240 241 241 241	-

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
2.0	2.0	1.0	1.0
0.0	0.0	0.0	1.0

ICC-ASTM A262-08 (practice B)-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

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: 03.10.2021 **Manager of quality assurance**
department - V. Kapaieva Signed:

Zaporozhye
Melted and Produced in Ukraine.
MELTED and MANUFACTURED
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P.O. # 5914 Part # 03-FOEL-40 Desc: 3" CPA 50E S-40 LONG 316 S/S

ANS