

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 20002
 TECHN.PROTOCOL № 390-11 SPEC.№2608/PO51243
 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00; 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-10 GR 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, CL1; NACE MR 0175-03; NACE MR 0103-10

Sheets:2 **Sheet: 2**
INSPECTION CERTIFICATE EN10204/3.1 Nr.370941
 PLANT ORDER № 8014902608



CUSTOMER
DSS INTERNATIONAL
SA Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 15.000in/381.00 mm L=8.426ft/2.570m L=8.443 ft/2.575m
Grade: 316/316L/1.4401/1.4404

QUANTITY: **1bund Q-5291 lb/2400 kg**
 (number of pcs) **1bund Q-5317 lb/2412 kg**

Delivery condition
 solution annealed :1940° F(1060°C) water 34minutes
 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 № A09969	.024	.44	1.37	.040	.027	16.79	10.25	2.06	.074	.22	.06	.05	.005	.10	.01	.029	.0076	.0023

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 % L	Brinell Hardness HB	Impact strength, KV, J		
	L	Q		A ₅ , % L	In 2 inches (50mm) or 4D ₅ , min, % L			L	Q	L
REQUIRED	205	240	515-690	45	35	40	50	140-217	100	60
EFFECTIVE	289	323	554	61	54	60	79	163	213 213 213	61 61 61

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	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/Подтверждаем, что поставленная продукция соответствует требованиям заказа
 Ratio of reduction-6.4:1

Mechanical properties tested in state of delivery
 Test specimen 10x10x55 mm with V-notch 2 mm deep

US - testing yes Results: ASTM A388/A388M-FBH1/5"; EN 10228-4 type Ia; class 3:OK

Date: 18.06.2021 **Manager of quality assurance department**
 - V. Kapaieva Signed:
 Zaporozhye
 Melted and Produced in Ukraine.
 MELTED and MANUFACTURED PrJSC " Dnipropetsstal"
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 http://www.dss-ua.com



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

P.O. # 6428 Part # 12-FOE-80 Desc: 12" CPA 50E S-80 316 S/S