

R 520644
509378
SHZP # 19312

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE



Contract No.: 20002
TECHN.PROTOCOL № 390-11 SPEC.№7878/P006622
DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00; 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 B8, CL1; NACE MR 0175-03; NACE MR 0103-10

Sheets:9 Sheet: 7
INSPECTION CERTIFICATE EN10204/3.1 Nr.330015
PLANT ORDER № 8033907878



CUSTOMER
DSS INTERNATIONAL
SA Switzerland

PRODUCT DESCRIPTION

Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованы, обточенные.

STEEL MAKING PROCESS: EAF+AOD

СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР

Round 8.500in/215.90 mm L=3.345m/10.967ft L=3.385m/11.098ft L=3.510m/11.508ft
L=3.480m/11.410ft

Grade: 316/316L/1.4401/1.4404

QUANTITY: 1bund Q-2191 1b/294 kg
1bund Q-2253 1b/1022 kg
(number of pcs) 1bund Q-2324 1b/1054 kg
1bund Q-2306 1b/1046 kg

Delivery condition
solution annealed :1922°F(1050°C)water 20minutes
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 № A05579	.019	.48	1.30	.037	.022	17,13	10.27	2.07	.065	.38	.07	.04	.006	.16	.025	.030	.0094	.0022

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J					
				A ₅ % L Q	In 2 inches (50mm) or 4D, min, % L			L	Q	L	Q		
REQUIRED	205	240	515-700	45 35	40	50	140-223	100	60				
EFFECTIVE	278 281	320 325	568 570	62 56 61 58	60 60	77 77	167 167	247 247 247 248 248 248	61 61 61 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
2.5	2.0	2.5	2.0
0.0	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

Mechanical properties tested in state of delivery

US - testing yes Results: ASTM A388/A388M-FBH1/8"; EN 10228-4 type 1a; class 3:OK

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

Manufacturer: PrJSC DNIPROSPETSSTAL

Date: 31.01.18 Manager of quality

assurance department - V. Kapaieva

Signed:

Zaporozhye

Made in Ukraine.

SN 6444 600# 4 SPC

Provided by CPA

www.flowconditioner.com,info@cpacl.ca