

C275679
4 pcs

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 20002
 TECHN.PROTOCOL № 390-11 SPEC.№8919/PO49148
 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-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

INSPECTION CERTIFICATE EN10204/3.1 Nr.360062
 PLANT ORDER № 8014908919

PRODUCT DESCRIPTION

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

STEEL MAKING PROCESS: EAF+AOD

СПОСОБ ВЫПЛАВКИ: Электропудовая печь+АКР
 Round 10.000m/254.00 mm L=11.115 ft/3.390m L=11.754 ft/3.585m
Grade: 316/316L/1.4401/1.4404

QUANTITY:

1bund Q-3095 lb/1404 kg
 1bund Q-3276 lb/1486 kg
 (number of pcs)

Delivery condition
 solution annealed : 1922° F(1050° C) water 30minutes
 термообработка: закалка в воду

CUSTOMER
DSS INTERNATIONAL
 SA Switzerland



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 № A08822	.022	.42	1.29	.040	.022	16.85	10.14	2.11	.065	.29	.06	.06	.005	.09	.014	.030	.009	.0023

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R _{0.2%} R _L 0%	Tensile Strength, R _m , (N/mm ²)	Elongation		Reduction of area, Z%, L	Impact strength, KV, J		
			A ₅ %, L	Q		Brinell Hardness HB	L	Q
REQUIRED	205	515-690	45	35	40	50	100	60
EFFECTIVE	284	590	61	55	57	76	204 204 204	65 65 65

Mechanical properties tested in state of delivery

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 thin thick
 2.5 2.0 2.0 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа
 Ratio of reduction-7.6:1

US - testing yes Results: ASTM A388(A388M)-FBH1/5"; EN 10228-4 type 1a; class 3:OK

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

Date: 14.08.2020
 Manager of quality assurance department - V. Karateva
 Signed:

Zaporozhye
 Melted and Produced in Ukraine.
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