

1pc C 297129

PIJSC DNIPROSPETSSTAL, YUZHNOYE SHO SSE 81, 69008 ZAPOROZH'YE, UKRAINE



Contract No.: 20002
 TECHN. PROTOCOL № 390-11 SPEC. № 2608-PO01243
 DIN EN 10088-3:05, DIN EN 10272-08, DIN EN 10222-5:00, AD2000-Merkblad W2, AD 2000-Merkblad 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-10, GR B8M, CL.1, 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, CL.1, NACE MR 0175-03, NACE MR 0103-10

Sheets: 4 Sheet: 4
 INSPECTION CERTIFICATE EN10204/3 1 Nr. 370940
 PLANT ORDER № 8014902608



CUSTOMER
 DSS INTERNATIONAL
 SA Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeced. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные.
 STEEL MAKING PROCESS: EAF+AOD
 СПОСОБ ВЫПУСКА: Электродуговая печь+АКР
 Round 9.000mm/228.60 mm L=13.492 ft/4.115m L=13.525 ft/4.125m
 Grade: 316/316L/1.4401/1.4404

QUANTITY: 1bund Q-3064 lb/1390 kg
 (number of pcs) 1bund Q-3073 lb/1394 kg
 Delivery condition
 solution annealed : 1940° F(1060° C) water 25minutes
 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 № A09974	.018	.43	1.40	.038	.025	16.70	10.34	2.07	.06	.32	.05	.05	.008	.15	.01	.028	.011	.0023

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R _{0.2} %, R _{1.0} %	Tensile Strength, R _m (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	
REQUIRED	205	515-690	45-35	40	50	140-217	100	60	
EFFECTIVE	287 289	320 323	559 563	60 54 60 53	59 59	79 78	163 163	201 201 201 198 198 198	63 63 63 61 61 61

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.

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 thin thick
 2.5 2.0 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-pitting test - OK
 We acknowledge that the delivered products conform to the requirements of the order/Получаем, что поставленная продукция соответствует требованиям заказа
 Ratio of reduction-6,4:1
 Date: 18.06.2021 Manager of quality assurance department
 - V. Karpivets Signed
 Zaporozhye
 Method and Produced in Ukraine
 MELTED and MANUFACTURED PJSC "Dniprospe tsstal"
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