

С224446

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 20002
 TECHN. PROTOCOL № 390-11 SPEC. № 0111/PO44618
 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,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: 2
INSPECTION CERTIFICATE EN10204/3.1 Nr.336733
 PLANT ORDER № 8014900111

CUSTOMER
 DSS INTERNATIONAL
 SA Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованыс, обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПУСКА: Электроплавовая печь+АКР
 Round 13.000in/330.20 mm L=10.721 ft/3.270m
Grade: 316/316L/1.4401/1.4404

QUANTITY:
 (number of pcs) **1bund Q-5079 lb/2304 kg**

Delivery condition
 solution annealed : 1940° F(1060° 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 № A06284	.018	.45	1.29	.040	.025	16,78	10.30	2.06	.076	.33	.05	.07	.005	.12	.011	.028	.011	.0022

MECHANICAL PROPERTIES
 DIN EN 10002-1, ASTM A370-09


	Yield Strength, (N/mm ²) R0.2% R 1.0%	Tensile Strength, Rm, (N/mm ²)	Elongation		Reducti on of area, Z %	Brinell Hardness HB	Impact strength, KV, J	
			A5 % L	Q			L	Q
REQUIRED	205	515-690	45	35	50	140-217	100	60
EFFECTIVE	276	555	58	47	75	163	189	189
	278	558	58	47	75	163	186	186

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
 3.0 2.0 2.0 1.0 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-6.7:1

Mechanical properties tested in state of delivery

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.

Manufacturer: PrJSC DNIPROSPETSSTAL
 Date: 09.08.18 Manager of quality assurance department - V. Kapaieva
 Signed: 
 Zaporozhye
 Made in Ukraine.

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