

CA19708

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 20002
 TECHN. PROTOCOL № 390-11 SPEC. № 9728/P044311
 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:3 Sheet: 2
INSPECTION CERTIFICATE EN10204/3.1 Nr.335698
 PLANT ORDER № 8014909728

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 ВЫПУСККИ: Электропудовая печь+АКР
 Round 16.000in/406.40 mm L= 7.213 ft/2.20 m
Grade: 316/316L/1.4401/1.4404

QUANTITY:
 1bund Q-5150 lb/2336 kg
 (number of pcs)

Delivery condition
 solution annealed : 1940° F(1060° C) water 30minutes
 термообработка: закалка в воду



QMS Certified

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 № A06143	.018	.48	1.42	.040	.026	16,71	10.20	2.08	.075	.29	.05	.08	.009	.11	.015	.028	0.13	.0022

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, (N/mm ²) Rm		Elongation A5 % L Q		Reduction of area, Z % L		Brinell Hardness HB		Impact strength, KV, J L Q	
	205	240	515-690	590	45 35	40	50	76	140-217	100	60	
REQUIRED	290	315	590	590	61 54	59	76	174	190 190 190	64 64 64		
EFFECTIVE												

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-5.0:1

Mechanical properties tested in state of delivery

US - testing yes Results: ASTM A388/A388M-FBHI/5", EN 10228-4 type 1a, class 3:OK

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

Manufacturer: PrJSC DNIPROSPETSSTAL
 Date: 09.07.18 Manager of quality assurance department - V. Kapaieva
 Signed:
 Zaporozhye
 Made in Ukraine.

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