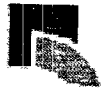


C299061

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSF 81, 69008 ZAPOROZHYE, UKRAINE



Contract No.: 20002
 TECHN. PROTOCOL № 390-11 SPEC.№2608/PO51243
 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 B8, 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

CUSTOMER
DSS INTERNATIONAL
SA Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионно-стойких (нержавеющих) сталей кованные, обточенные.
СПОСОБ ВЫПЛАВКИ: Электродуговая печь + АКР
 Round 15.000in/381.00 mm L=8.426ft/2.570m L=8.443 ft/2.575m
Grade: 316/316L/1.4401/L.4404

INSPECTION CERTIFICATE EN10204/3.1 №.370941
 PLANT ORDER № 8014902608

QUANTITY:
 1bund Q-5291 1b/2400 kg
 1bund Q-5317 1b/2412 kg

Delivery condition
 solution annealed : 1940° F(1060° C) water 34minutes
 термообработка: закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
CAST № A09969	.024	.44	1.37	.040	.027	16.79	10.25	2.06	.074	.22	.06	.05	.005	.10	.01	.029	.0076	.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, %	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	289	554	61-54	60	79	163	213 213 213	61 61 61

Mechanical properties tested in state of delivery

US - testing
 yes Results: ASTM A388/A388M-FBH/5th; EN 10228-4 type Ia; 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 thin thick thin thick thin thick thin thick
 2.0 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-6.4:1

Date: 18.06.2021
 Manager of quality assurance department
 - V. Karava
 Signed:

Melted and Produced in Ukraine
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