



PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.783083/P931996-842 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, AD2000-Merkblatt W2; AD 2000-Merkblatt W10; ASTM A182/A182M-10; ASME SA-182/SA-182M-0; 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	Sheets:5 Sheet: 1 INSPECTION CERTIFICATE EN10204/3.1 Nr.347744 PLANT ORDER № 8081903083
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 QMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland Purchase number 509378	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСБ ВЫПЛАВКИ: Электроплавочная печь+АКР Round 8.500in/215.90 mm L=15.835 ft/4.830m L=14.557 ft/4.400m L=14.525 ft/4.430m Grade: 216/316L/1.4401/1.4404	QUANTITY: 1bund Q-3232 lb/1466 kg 1bund Q-2967 lb/1346 kg (number of pcs) 1bund Q-2959 lb/1342 kg Delivery condition solution annealed : 1920° F(1050° C) water 25minutes термообработка: закалка в воду
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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	10.30-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № A07302	.021	.46	1.36	.040	.023	17.35	10.23	2.10	.076	.29	.05	.05	.005	.11	.011	.023	.0086	.0025

DIN EN 10002-1, ASTM A370-09									
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation:1		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J	
	205	240		A5 % L Q	In 2 inches (50mm) or 4D, min. % L			L	Q
REQUIRED	205	240	515-690	45 35	40	50	140-223	100	60
EFFECTIVE	288 290	304 306	559 559	58 51 58 51	5" 5"	73 73	163 163	200 200 200 198 198 198	65 65 65 64 64 64

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
3.0	2.0	3.0	2.0
0.0	0.0	0.0	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-8.3:1

Mechanical properties tested in state of delivery

US - testing	yes	Results: ASTM A383/A388M-FBH1/8"; EN 10228-4 type 1a; class 3:OK
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Radiation free; mercury free. No Weld or Weld repair.

Manufacturer: PrJSC DNIPROSPETSSTAL
 Date: 26.07.19 Manager of quality assurance department - V. Kapaieva
 Signed: 
 Zaporozhyye
 Made in Ukraine.

R781164
 509378
 SHIP # 20975

ANS