

8" 11" 96384 (6.5")

C055281

ASA PO 77400

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DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYYE 69008, UKRAINE

Purchase order No.: 50005
 TECHN. PROTOCOL № 350-11 SPEC. № 242M/P01076
 DIN EN 10088-3-05, DIN EN 10272-08, AD2000-Merkblatt W2; AD 2000-Merkblatt 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, 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

EN10204/3.1
 Sheets: 9 Sheet: 3
 QUALITY CERTIFICATE №. 247766
 PLANT ORDER № 8033902423

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные.
 STEEL MAKING PROCESS: EAF+AOD
 СПОСОБ ВЫПЛАВКИ: Электроплавочная печь+АКР
 Round 6.500in/165.10 mm L=3.50-5.50m/11.48-18.03ft
 Grade: 316/316L/1.4401/1.4404

QUANTITY:
 (number of pcs) 1bundQ-3422 lb/1552 kg
 Delivery condition
 solution annealed : 1900° F (1040° C) water 10minutes
 термообработка: закалка в воду

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	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		
HEAT № 96384	.022	.45	1.28	.037	.025	16.57	10.00	2.00	.077	.25	.04	.10	.124	.08	.01	.032	.01	.0012

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R 0.2 % R1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduct ion of area, Z, %	Brinell Hardness HB	Impact strength, KV, J	
	A ₅ %	A ₁₀ %		40 2 inches (50mm) or 40,mm, % 1	L			Q	
REQUIRED	205	240	515-690	45 35	40	50	140-223	100	60
EFFECTIVE	265 270	302 309	600 607	60 54 59 53	55 56	77 78.5	179	236 227 244 249 231 240	61 62 62 61 61 61

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
 2.0 1.0 2.0 1.0 0.0 0.0 1.0 1.0
 ICC-ASTM A262-08(practice E)-t
 „Dimension/surface defects test, a“

Mechanical properties tested in state of delivery

US - testing yes Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBIII/8" EN 10308 type Ia; class 3-OK

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 30.05.11 Signed:

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

V. Kap...
 Zaporozhye
 Made in Ukraine.

