

№ 7527
 ASA
 NPS 12-40 WID 5304
 NPS 12-80 WID 53-4
 1023581

S✓
 95500 (15.75")



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No.: 50005

TECHN.PROTOCOL № 210-06 SPEC.№0713/PO22275

ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
 ASTM A479/A479M-04; ASTM SA-479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03
 Cond. A NACE MR 0175-2003; AMS 5648K-02; AMS 5653F-02; ASTM A193/A193M-04c GR B8M, CL1 (EXC PAR 6.3)
 ASME SA-193/SA-193M-04 GR B8M, CL1 (EXC PAR 6.3);

Sheets: 8 Sheet: 7 * EN10204/3.1
 QUALITY CERTIFICATE №.239780
 PLANT ORDER № 8014900713

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 ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 15.750in/400.05 mm L=3.36m/11.02ft
 Grade: 316/F316/316L/F316L

QUANTITY: 1bund (1-7628 lb/3460kg
 (number of pcs)
 Delivery condition
 solution annealed :1900-2010°F(1040-1100°C)/water
 термообработка: закалка в воду

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂
REQUIRED	<.030	<1.00	1.25-2.00	<.040	.020-.030	16.00-18.00	10.00-14.00	2.00-3.00	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10
HEAT № 95500	.022	.28	1.42	.035	.022	17.02	10.80	2.03	.074	.26	.04	.20	.072	.10	.021	.026

MECHANICAL PROPERTIES „ASTM A370-08a“	Yield Strength, Ksi(MPA)	Tensile Strength, Rm,ksi (N/mm ²)	Elongation in 2 inches (50mm) or 40, min, % (ASTM A370)	Reduction of area, %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	36(248)	75 (515)	45	50	140-223	100
EFFECTIVE	40.7(277)	85.1(579)	56	77	167	267

TECHNICAL REQUIREMENTS:
 Macrostructure – GOOD
 GRAIN SIZE: 5 to ASTM E 112
 Nonmetallic inclusions ASTM E 45 (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 A262-02a(Method E)-test: O.K.
 „Dimension/surface defects test, anti-mixing test – O.K.“
 Ratio of reduction-4.61:1

Mechanical properties tested in state of delivery

US - testing yes Results: SEP 1921, 3/ Cc - O.K.

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

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 09.11.10 Signed: V.Kapal'eva
 Zaporozhye
 Made in Ukraine.

