

MF @ SS SF1

95973 (6.5")

0033535

ASA PO 76682 WO 5568 CPA 4 FOUR 40 Nozzle



**DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE**

QMS Certified

Contract No.: 50005  
 TECHN.PROTOCOL № 210-06 SPEC.№1882/P023364-ED  
 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-04GR B8M, CL1 (EXC PAR 6.3); NACE MR0103

04  
 12/12/11

EN10204/3.1

Sheets: 8 Sheet: 3  
 QUALITY CERTIFICATE Nr. 245298  
 PLANT ORDER № 8014901882

CUSTOMER „DSS INTERNATIONAL SA“ Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (пержавленых) сталей горячекатаные обточенные на линии Ландграф.	QUANTITY: 1bund Q-3457 lb/1568 kg (number of pcs) 1bund Q-2928 lb/1328 kg
	STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 6.500in/165.10 mm L=3.40-5.50m/11.15-18.03ft Grade: 316/F316/316L/F316L	Delivery condition solution annealed : 1900-2010 <sup>o</sup> F(1040-1100 <sup>o</sup> C)/water термообработка: закалка в воду

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>		
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		
<b>HEAT № 95973</b>	.022	.28	1.28	.033	.024	16.63	10.17	2.09	.047	.25	.06	.13	.093	.08	.01	.031		

ASTM A370-08a

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>0.2</sub> )	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
			In 2 inches (50mm) or 4D, min, % (ASTM A370)				
REQUIRED	36(248)	75 (515)	45		50	140-223	100
EFFECTIVE	37.7(256)	79.9(543)	64		80.5	159	219

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  
     2.5 1.5 1.5 1.0 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- 14.3:1

5✓  
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Mechanical properties tested in state of delivery

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

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

Manufacturer: JSC DNEPROSPETSSTAL  
 Date: 30.03.11 Signed:   
 Zaporozhye  
 Made in Ukraine.

