

ME Q 55 SFI

95973 (6.25)

CO33534

ASA PO 76341 WO 5521 CPA 4-40



QMS Certified

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

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

EN10204/3.1

Sheets:8 Sheet: 2  
 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 коррозионноустойчивых (нержавеющих) сталей горячекатаные обточенные на линии Ландграф.	QUANTITY: 1bund Q-3382 lb/1534 kg (number of pcs) 1bund Q-3408 lb/1546 kg
	STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 6.250in/158.75 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
HEAT № 95973	.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	44.2(304)	91(625)	58		81	183	285

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
3.0	2.0	3.0	2.0
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- 15.4:1

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.

