

6"

96137 (8.5")



QMS Certified



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

C033929

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 ;
ASME SA-193/SA-193M-04GR B8M,CL1 ; NACE MR0103

EN10204/3.1

Sheets:5 Sheet: 3
QUALITY CERTIFICATE №.245760
PLANT ORDER №: 8014901882

CUSTOMER
„DSS INTERNATIONAL SA“
Switzerland

PRODUCT DESCRIPTION

Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
Round 8.500in/215.90 mm L=3.75m/12.30ft
Grade: 316/F316/316L/F316L

QUANTITY:
(number of pcs) 1bund Q-2482 lb/1226 kg

Delivery condition
solution annealed : 1900-2010°F(1040-1100°C)/water 16minutes
термообработка: отпуск 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 № 96137	.026	.50	1.38	.035	.020	16.80	10.20	2.05	.061	.22	.05	.10	.11	.07	.01	.033		

ASTM A370-08a

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{0.2})	Tensile Strength, Rm,ksi (N/mm ²)	Elongation		Reduction of area, %	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	39.3(270)	84.9(583)	59		75	174	181

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.

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 2.0 2.5 1.5 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- 8.61:1

Manufacturer: JSC DNEPROSPETSSTAL

Date: 11.04.11 Signed: _____

V. Kapariuk

Zaporozhnye
Made in Ukraine.

