

ASA
 PO 75962
 WO 5448
 CPA - NPS 12/80

4pc



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYYE 69008, UKRAINE

Contract No.: 50005
 TECHN.PROTOCOL № 210-06 SPEC.№2366/P01204
 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

96010

EN10204/3.1
 Sheets: 7 Sheet: 1
 QUALITY CERTIFICATE Nr.244694
 PLANT ORDER № 8015202366

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland

PRODUCT DESCRIPTION
 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 16.000in/406.40 mm L=3.20m/10.49ft
 Grade: 316/F316/316L/F316L

QUANTITY:
 (number of pcs) 1bund Q-7513 lb/3408 kg
 Delivery condition
 solution annealed :1900-2010⁰ F(1040-1100⁰ 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		
CAST № 96010 ✓	.025	.27	1.41	.034	.023	17.12	10.06	2.00	.066	.22	.04	.16	.007	.07	.01	.063		

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{0.2})	Tensile Strength, Rm,ksi (N/mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	42.6(293)	85.4(587)	59	75	174	197

TECHNICAL REQUIREMENTS:
 Macrostructure – GOOD
 GRAIN SIZE : 5 to ASTM E 112
 Nonmetallic inclusions ASTM E 45 (Method A)

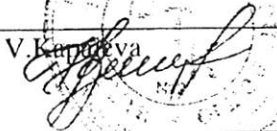
		A		B		C		D	
		thin	thick	thin	thick	thin	thick	thin	thick
		2.0	1.0	2.0	1.0	0.0	0.0	1.0	1.0

 ICC-ASTM A262-02a(Method E)-test: O.K.
 „Dimension/surface defects test, anti-mixing test – O.K.“
 Ratio of reduction-4.37:1

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: 15.03.11 Signed: 
 Zaporozhye
 Made in Ukraine.

bb