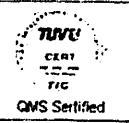


CO34875

95829 (9")

ASA P076290 WO5512 CPA 6-40



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYYE 69008, UKRAINE

Contract No.: 50005
 TECHN. PROTOCOL № 210-06 SPEC. № 1462/PO23042
 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
 ASTM A479/A479M-04; ASTM E 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 MR103

Handwritten: 9/19/11

EN10204/3.1
 Sheets: 6 Sheet: 5
 QUALITY CERTIFICATE Nr. 243760
 PLANT ORDER № 8014901462

CUSTOMER „DSS INTERNATIONAL SA“ Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled Прутки из коррозионноустойчивых (нержавеющих) сталей кованые обточенные STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 9,000in/228.60 mm L=3,59m/11,77ft Grade: 316/F316/316L/F316L	QUANTITY: 1bund Q-2672 lb/1212kg (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 № 95829	.025	.38	1.40	.034	.022	16.75	10.26	2.13	.077	.22	.05	.20	.11	.07	.01	.043

MECHANICAL PROPERTIES „ASTM A370-08a“	Yield Strength, Ksi(MPA)	Tensile Strength, Rm, ksi (N/mm ²)	Elongation in 2 inches (50mm) or 4D, min, % (ASTM A370)	Reduction of area, Z, %	Brinell Hardness HB	Impact strength, KV, J	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 3,0 2,5 3,0 2,0 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-7.9 :1							
REQUIRED	36(248)	75 (515)	45	50	140-223	100								
EFFECTIVE	37 (254)	81.3(558)	59	77	163	208								

Mechanical properties tested in state of delivery

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

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 21.02.11 Signed: *[Signature]*
 V. Kapiyev

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

Zaporozhye
 Made in Ukraine.

Handwritten: SV MC