

95853.

C027200



GMS Certified

**DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 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; ASME 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)

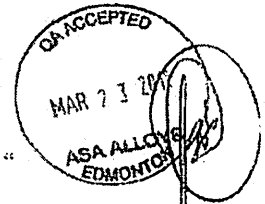
EN10204/3.1

Sheets: 9 Sheet: 4  
 QUALITY CERTIFICATE Nr.242283  
 PLANT ORDER № 8014901462

CUSTOMER „DSS INTERNATIONAL SA“ Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные обточены на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь АКР Round 6.250in/158.75 mm L=3.40-5.50m/11.15-18.03 ft Grade: 316/F316/316L/F316L.	QUANTITY: 1bund Q-3536 lb/1604kg (number of pes) 1bund Q-1768 lb/802 kg  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 <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 № 95853	.025	.44	1.33	.037	.020	16.63	10.00	2.08	.058	.25	.04	.10	.11	.08	.01	.022

MECHANICAL PROPERTIES „ASTM A370-08a“	Yield Strength, Ksi(MPA)	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	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)							
REQUIRED	36(248)	75 (515)	45	50	140-223	100	thin thick thin thick thin thick thin thick 2.0 1.0 2.0 1.0 0.0 0.0 1.0 1.0							
EFFECTIVE	37.9(260)	81.5(560)	61	73	167	190	ICC-ASTM A262-02a(Method E)-test: O.K. „Dimension/surface defects test, anti-mixing test – O.K.“ Ratio of reduction-14.3 :1							



Mechanical properties tested in state of delivery

US - testing	yes	Results: SEP 1921, 3/ Dd - O.K.	Manufacturer: JSC DNEPROSPETSSTAL Date: 12.01.11 Signed: V.Kapateva Zaporozhye Made in Ukraine.
--------------	-----	---------------------------------	--

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

