
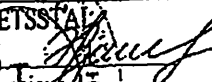


95139. DS69267008

CO23526

DSRB0758

		DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE															
Contract No.: 50005 TECHN.PROTOCOL № 210-06 SPEC.№0201/PO L29294 ASTM A182/A182M-05;ASME SA-182/SA-182M-04;ASTM A276-04; ASTM A479/A479M-04;ASTME 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,CLI ASME SA-193/SA-193M-04GR B8M,CLI		EN10204/3.1 Sheets:7 Sheet: 7 QUALITY CERTIFICATE Nr.235350 PLANT ORDER № 8023400201															
CUSTOMER „DSS INTERNATIONAL SA“ Switzerland Commodity code RB6L2000/DS		PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged , peeled Прутки из коррозионностойких (нержавеющих) сталей кованные обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ:Электродуговая печь+AKP Round 20.00in/508.0 mm L=2.48m/8.13 ft Grade: 316/F316/F316L										QUANTITY: 1bund 0-8984 lb/4075 kg (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 № 95139,		.022	.38	1.35	.039	.021	16.90	10.0	2.04	.049	.25	.04	.09	.081	.07	.01	.038
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, %	Brinell Hardness HB	Impact strength KV. J										
REQUIRED		30(205)	75 (515)	45	50	140-223	100										
EFFECTIVE		44.6(308)	79.8(551)	60	79	163	205										
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 1.5 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- 4.3 :1															
		Manufacturer: JSC DNEPROSPETSSTAL Date: 16.07.10 Signed:  Zaporozhye Made in Ukraine.															

QA ACCEPTED
JAN 31 2011
ASA ALLOY EDMONTON


M. Kaphieva