

95425 (15")

023546



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No.: 50005

TECHN.PROTOCOL № 210-06 SPEC.№0693/P000924

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-00-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:6 Sheet: 3
 QUALITY CERTIFICATE Nr.239421
 PLANT ORDER № 8015200693

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland
 Customer's item number 11415005

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: Электроплавочная печь+AOP
 Round 15.000in/381.00 mm L=4.25m/13.93ft
 Grade: 316/F316/316L/F316L.

QUANTITY:
 (number of pcs)11bund 0-809 lb;3946 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 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 № 95425	.028	.54	1.40	.036	.026	16.50	10.20	2.00	.065	.23	.05	.08	.08	.09	.01	.036		

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	41.6(286)	84.3(579)	60	79	167	197

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

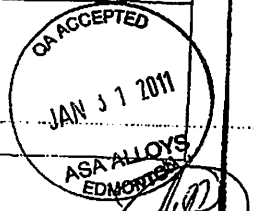
A	B	C	D
thin	thick	thin	thick
2.0	1.5	2.0	1.0
0.0	0.0	1.0	1.0

 ICC-ASTM A262-02a(Method E)-test: O.K.
 ..Dimension/surface defects test,anti-mixing test – O.K. -
 Ratio of reduction- 4.57:1

Mechanical properties tested in state of delivery

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

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 31.10.10 Signed:
 Zaporozhyc
 Made in Ukraine.



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