

0007797

6/8/2010

This MTR contains 1 page (Page: 1)

DS64629003-04

94601 16"

DSRB0434



**DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE**

<b>QMS Certified</b> Contract No.: 07234 TECHN.PROTOCOL № 210-06 SPEC.№5198/L27611 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,CL1 ; ASME SA-193/SA-193M-04GR B8M,CL1		EN10204/3.1 Sheets:3 Sheet: 3 <b>QUALITY CERTIFICATE № 229299</b> PLANT ORDER № 8072345198
Commodity code RB6L1600/DS	<b>PRODUCT DESCRIPTION</b> Rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойкой (нержавеющей) стали кованные,обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> СПОСОБ ВЫПУСККИ:Электродуговая печь+АКР Round 16.00mm/406.40 mm L=3.96m/12.98ft Grade: 316/F316/316L/F316L	QUANTITY: 1bund Q-9226 lb/4185 kg (number of pcs) 1bund Q-9226 lb/4185 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 № 94601	.028	.31	1.36	.038	.020	17.02	10.16	2.06	.028	.23	.05	.07	.031	.07	.01	.035

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>eL</sub> )	Tensile Strength, Rm,ksi (N /mm <sup>2</sup> )	Elongation A <sub>5</sub> %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	44,4(305)	83,0(570)	59	77	167	257

**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
2.5	2.0	2.0	1.5
0.0	0.0	1.0	1.0

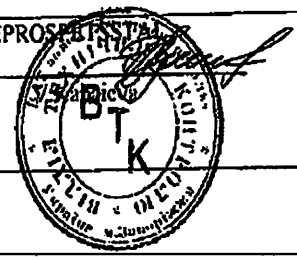
 ICC-ASTM A262-02a(Method E)-test: O.K.  
 „Dimension/surface defects test,anti-mixing test - O.K.“  
 Ratio of reduction- 5.03: 1

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: 21.01.10 Signed:   
 Zaporozhye  
 Made in Ukraine.



Mill Test Report

MILL TEST REPORT

MTR#: DSRB0434 Customer#: ASAALB PO#: P021485 SO#: LGR028  
 Item#: RB6L1600 Bundle#: DS64629004 Heat#: 94601