

94144

DS 59369007

DSRB 0343

E19603



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No.: 07234
 TECHN. PROTOCOL № 210-06 SPEC. № 3841/L25976
 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 0175-2000; AMS 5648K-02; AMS 5653F-02; ASTM A193/A193M-04c QR B8M, CLI (EXC PAR 6.3)
 ASME SA-193/SA-193M-04GR B8M, CLI (EXC PAR 6.3); NACE MR 0175

Sheets: 5 Sheet: 5
 QUALITY CERTIFICATE EN10204/3.1 Nr. 224123
 PLANT ORDER № 8072343841

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland
 Commodity code RB6L2000/DS

PRODUCT DESCRIPTION
 Rods of corrosion-resistant (stainless) steel, forged, pickled.
 Прутки из коррозионноустойчивых (нержавеющих) сталей
 кованые, обточенные
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 20.000in/508.00 mm L=2.49m /8.16ft,
 Grade: 316/F316/316L/F316L

QUANTITY: 1bund Q-9772 lb/4115 kg
 (number of pcs)
Delivery condition
 solution annealed : 1900-2010° F (1040-1100°C)/water
 термобработка: 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		
CAST (№ 94144)	.024	.39	1.49	.037	.020	16.18	10.00	2.05	.064	.27	.05	.19	.12	.083	.116	.026		

MECHANICAL PROPERTIES	Yield Strength, KsN/mm ² / Re (R _{0.2})	Tensile Strength, Rm, KsN/mm ² (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	36.8(259)	76.1(523)	68	81	152	270

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
1.5	1.5	1.5	1.0
0.0	0.0	0.0	1.0

 ICC-ASTM A262-02a (Method E)-test: O.K.
 ..Dimension/surface: defects test, anti-mixing test - O.K. -
 Ratio of reduction- 4.44:1

Mechanical properties tested in state of delivery

US - testing	yes	Results: SEP 1921, 3/ Cc - O.K.
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Radiation free; mercury free. No Weld or Weld repair.

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 30.06.09 Signed:
 Y. Kapajeva
 Zaporozhyc
 Made in Ukraine.