

DS70728001

95262.

DSRB1138 · C021833



QMS Certified

DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No.: 50005
TECHN.PROTOCOL № 210-06 SPEC.№0390/PO L29453
ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
ASTM A479/A479M-04; ASTM SA-479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03
Cond.A; NACE MR 0175-2003; AMS S648K-02; AMS S653F-02; ASTM A193/A193M-04c GR B8M, CL1
ASME SA-193/SA-193M-04GR B8M, CL1

EN10204/3.1

Sheets: 9 Sheet: 1
QUALITY CERTIFICATE Nr.236770
PLANT ORDER № 8023400390

CUSTOMER
„DSS INTERNATIONAL SA“
Switzerland

Commodity code RB6L2000/DS

PRODUCT DESCRIPTION

Bars and rods of corrosion-resistant (stainless) steel forged, peeled
Прутки из коррозионностойкой (нержавеющей) стали кованные обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
Round 20.00in/508.0 mm L=2.55m/8.36 ft
Grade: 316/F316/316L/F316L

QUANTITY: 1bund Q-9272 lb/4206 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 № 95262	.027	.63	1.54	.038	.020	16.73	10.15	2.01	.054	.25	.05	.07	.072	.09	.012	.043		

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	37.9(258)	82.0(558)	60	79	163	293

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
3.0 2.5 2.5 2.0 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- 5.12:1

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: 26.08.10 Signed: *[Signature]*
Zaporozhye
Made in Ukraine.

