

Customer: ASAALB PO#:P025219 SO#:LMR561  
Item:RB6L1500 Bundle:DS80533005 Heat#:96547

MTR#:DSRB1884.GI

C039225

DS80533005

96547

DSRB 1884

DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYYE 69008, UKRAINE



QMS Certified

Contract No.: 50005

EN10204/3.1

TECHN.PROTOCOL № 210-11 SPEC.№3178/PO L32939

ASTM A182/A182M-10;ASME SA-182/SA-182M-10;ASTM A276-10;ASTM A314-08;ASTM A479/A479M-10;ASME SA-479/SA-479M-10;ASTM A484/A484M-10; AMS-QQ-S-763B-06 Cond.A;AMS 5648K-07;AMS 5653F-07; ASTM A193/A193M-10 GR B8M,CL 1; ASME SA-193/SA-193M-10GR B8M,CL 1;ASTM A320/A320M-08GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10

Sheets:6

Sheet: 4

QUALITY CERTIFICATE Nr.249472

PLANT ORDER № 8023403178

CUSTOMER  
„DSS INTERNATIONAL SA“  
Switzerland  
Commodity code RB6L1500/DS

PRODUCT DESCRIPTION  
Bars and rods of corrosion-resistant (stainless) steel forged, peeled.  
Прутки из коррозионноустойчивых (нержавеющих) сталей ковше, обточенные.  
STEEL MAKING PROCESS: EAF+AOD  
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР  
Round 15.000in/381.00 mm L=4.675m/15.31 ft  
Grade: 316/F316/316L/F316L

QUANTITY:

(number of pcs) 1bund Q-9559 1b4136 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	<.100	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 № 96547	.025	.46	1.30	.034	.022	16.88	10.10	2.02	.066	.27	.05	.08	.093	.113	.01	.032

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>e1</sub> )	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	Elongation		Brinell Hardness HB	Impact strength, KV, J
			A, %	Reduction of area, %		
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	41.6(279)	83.9(571)	60	77	167	204

TECHNICAL REQUIREMENTS:

Macrostructure - GOOD  
GRAIN SIZE: 6 to ASTM E 112-96(2004)  
Nonmetallic inclusions ASTM E 45-05 (Method A)  
A B C D  
thin thick thin thick thin thick thin thick  
2.0 1.0 2.0 1.0 0.0 0.0 1.0 1.0  
ICC-ASTM A262-08(practice E)-test: O.K.  
..Dimension/surface defects test,anti-mixing test - O.K."  
Ratio of reduction- 6.46:1

Mechanical properties tested in state of delivery

US - testing yes Results: SEP 1921,group 3/class Cc - OK

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

Manufacturer: PJSC DNIPROSPETSSTAL  
Date: 06.07.11 Signed:



Zaporozhye  
Made in Ukraine.