

Order: ASAALB PO#:P025942 SO#:LNR615
 n:RB6L1300 Bundle:DS81908007 Heat#:96631

MTR#:DSRB1941.GIF

0044772

96631

DS81908007
 DSRB 1941

DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No 50005

EN10204/3.1

TECHN. PROTOCOL № 210-11 SPEC. № 3179/PO L32940

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-10 GR B8M, CL. 1; ASTM A320/A320M-08 GR B8M, CL. 1; ASME SA-320/SA-320M-10 GR B8M, CL. 1; NACE MR 0175-03; NACE MR 0103-10

Sheets: 6 Sheet: 5
 QUALITY CERTIFICATE Nr.249733
 PLANT ORDER № 8023403179

CUSTOMER
 DSS INTERNATIONAL SA"
 Switzerland
 COMMODITY CODE:
 RB6L1300/DS

PRODUCT DESCRIPTION

Bars and rods of corrosion-resistant (stainless) steel forged, peeled.
 Прутки из коррозионностойких (нержавеющих) сталей кованые, обточенные.
 STEEL MAKING PROCESS: EAF+AOD
 СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 13.00in/330.20 mm L=5.47m/17.93ft;
 Grade: 316F/316L/316L/316L

QUANTITY: 1bund (1)-8435 lb/3826 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	<.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 № 96631	.025	.41	1.31	.031	.020	16.59	10.10	2.12	.058	.30	.06	.14	.120	.09	.011	.0240

MECHANICAL PROPERTIES	Yield Strength, KSI(N/mm ²) Re (R _{eL})	Tensile Strength, KSI(N/mm ²) Rm (R _m)	Elongation, A, %	Reduction of area, Z, %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75(515)	45	50	140-223	100
EFFECTIVE	44.2(304)	88.8(610)	58	73	179	204

TECHNICAL REQUIREMENTS:

Macrostructure - GOOD
 GRAIN SIZE : 5 to ASTM E 112-96(2004)
 Nonmetallic inclusions ASTM E 45-05 (Method A)

A	B	C	D
thin	thick	thin	thick
3.0	2.0	3.0	1.5
0.0	0.0	1.0	1.0

 ICC-ASTM A262-08(practice F)-test: O.K.
 „Dimension/surface defects test, anti-mixing test - O.K.”
 Ratio of reduction-5.2:1

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: 13.07.11 Signed:

V. Kapichuk
 V. Kapichuk

Zaporozhye
 Made in Ukraine.