

96956

Customer#: ROLCON MTR#: DSRB2195 PO#: E576 SO#: PL5943 Invoice#: HCA512
 Item#: RB6L1500 Bundle#: DS83987003 Heat#: 96956

DS83987003

DSRB2195

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE



Contract No.: 50005
 TECHN.PROTOCOL № 210-11 SPEC.№4293/PO L34189
 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: 11 Sheet: 2
QUALITY CERTIFICATE EN102043.1 Nr.253333
 PLANT ORDER № 8023404293



CUSTOMER
 DSS INTERNATIONAL SA
 Switzerland

 Commodity code
 RB6L1500/DS

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионно-стойких (нержавеющих) сталей кованные, обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+AOD
 Round 15.000m/381.00 mm L=3.760m/12.328ft
 Grade: 316/F316/316L/F316L

QUANTITY:
 (number of pcs) 1bund Q-7727 lb/3505 kg

Delivery condition
 solution annealed: 1900-2010°F(1040-1100°C)/water
 термообработка: закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂
REQUIRED	<.030	<.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 № 96956	.024	.41	1.31	.035	.022	16.78	10.20	2.03	.067	.25	.04	.08	.090	.10	.01	.0280

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) R _e (R _m)	Tensile Strength, Ksi(N/mm ²) R _m (R _m)	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	37.6(258)	83.1(571)	58	71	167	243

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	2.0	1.5
0.0	0.0	0.0	1.0

 ICC-ASTM A262-08 (practice E)-test: O.K.
 Dimension/surface defects test, anti-mixing test - OK

Mechanical properties tested in state of delivery

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

Manufacturer: PJSC DNIPROSPETSSTAL
 Date: 04.10.11 Manager of quality assurance department - V. Kapaieva Signed:

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

Zaporozhye
 Made in Ukraine.