

HT# A01624

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2357658

**PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE**



Contract No.: 20002  
 TECHN. PROTOCOL № 210-11 SPEC. № 5844/PO L49257  
 ASTM A182/A182M-13; ASME SA-182/SA-182M-10; ASTM A276-13; ASTM A314-13; ASTM A479/A479M-13; ASME SA-479/SA-479M-10; ASTM A484/A484M-13; AMS-QQ-S-763C-13 Cond. A; AMS 5648L-11; AMS 5653H-12; ASTM A193/A193M-12; GR B8M CL1; ASME SA-193/SA-193M-10; GR B8M CL1; ASTM A320/A320M-11; GR B8M CL1; ASME SA-320/SA-320M-10; GR B8M CL1; ANSI/NACE MR 0175/ISO 15156-3-09; NACE MR 0103-12

Sheets: 5 Sheet: 4  
 INSPECTION CERTIFICATE EN10204/3.1 Nr. 291958  
 PLANT ORDER № 8023405844



**CUSTOMER**  
 DSS INTERNATIONAL SA  
 Switzerland  
 Commodity code  
 RD6L1500/DS

**PRODUCT DESCRIPTION**  
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные.  
**STEEL MAKING PROCESS: EAF+AOD**  
 ШОСОБ ВИПЛАВКИ: Электродуговая печь+AOP  
 Round 15.000in/381.00 mm L=1.390m/14.393ft  
 Grade: 316/F316/316L/F316L

**QUANTITY.**  
 (number of pcs) 1bund Q-9070 lb/4114 kg  
**Delivery condition**  
 solution annealed :1900-2010° F(1040-1100°C)/water  
 термическая обработка: закалка в воду

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>		
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 № A01624	.030	.39	1.37	.038	.025	16.60	10.38	2.14	.056	.23	.07	.08	.005	.08	.011	.027		

MECHANICAL PROPERTIES	Yield Strength, Ksi (N/mm <sup>2</sup> ) Re (R <sub>eL</sub> )	Tensile Strength, Ksi (N/mm <sup>2</sup> ) R <sub>m</sub>	Elongation A <sub>5</sub> %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	44.5(307)	82.3(568)	60	77	163	241

**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
2.0	1.5	1.5	1.0
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

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

Manufacturer: PJSC DNIPROSPETSSTAL  
 Date: 12.01.15      Manager of quality assurance department - V. Kapnieva      Signed:

Zaporozhyc  
 Made in Ukraine.

DSE0209003

MILL TEST REPORT  
 TA CHEN INTERNATIONAL, INC.  
 Customer: EMJSCH PO#:P841253-423 SO#:LW/CD02  
 Item:RB6L1500 Bundle:DSE0209004 Heat#:A01624  
 This MTR contains 1 page (Page# 1)  
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