

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

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Customer: RYECAL PO#:710589 SO#:HY9714

MTR#:DSRB2006.GIF

Item:RB6L0832 Bundle:DS82256002 Heat#:96771

DS82256002

96771

DSRB 2006



QMS Certified



DNI PROSPETS TAL, YUZHNOYE SHOSSE 81, ZAPOROZH'YE 69008, UKRAINE

Contract No.: 5005  
 TECHN. PROTOCOL № 210-11 SPEC. № 3553/PO L33207  
 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 Cmd.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

ENR02943.1  
 Sheets: 6 Sheet: 4  
 QUALITY CERTIFICATE № 251157  
 PLANT ORDER № 8023403553

CUSTOMER  
 „DSS INTERNATIONAL SA“  
 Switzerland  
 Commodity code: RB6L0832/DS

PRODUCT DESCRIPTION  
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled.  
 Продукт из коррозионно-стойкого (нержавеющего) сталя ковшею, обточенным.  
 STEEL MAKING PROCESS: EAF+AOD  
 СПОСОБ ВЕРТУВАРКИ: Електродуговий пель + АОД  
 Код: 3101011310001

QUANTITY:  
 (number of pcs) Item Q-3201 R/1452 kg  
 Delivery condition  
 solution annealed : 1900-2010°F (1040-1100°C) water  
 термическая обработка: закалка в воде

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>
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
	.022	.34	1.37	.031	.024	16.67	10.25	2.06	.057	.24	.05	.12	.092	.07	.012	.0320

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) R <sub>e</sub> (R <sub>eL</sub> )	Tensile Strength, Rm, ksi (N/mm <sup>2</sup> )	Elongation A <sub>g</sub> , %	Reduction of area, Z, %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	37.7(259)	81(557)	57	79	163	197

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 thin thick thin thick  
 2.5 2.5 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- 10.17:1

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: ISC DNEPROSPETS TAL  
 Date: 17.08.11 Signed:   
 Zaporozh'ye  
 Made in Ukraine.