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MTR#: DSRB0959.GIF

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TA CHEN INTERNATIONAL, INC.


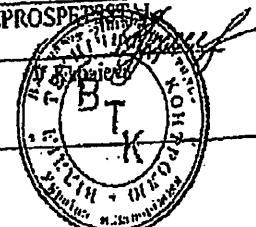
MILL TEST REPORT

Customer: ASAALB PO#:P025198 SO#:LMQ333

Item: RB6L1100 Bundle: DS70503006 Heat#: 95038

95038 (11")

DSRB0959  
DS 70503006

 <b>DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE</b>												EN10204/3.1 Sheets: 5      Sheet: 5 <b>QUALITY CERTIFICATE № 235865</b> PLANT ORDER № 8072346635					
Contract No.: 07234 TECHN. PROTOCOL № 210-06 SPEC. № 6635/PO L28916 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04; ASTM A479/A479M-04; ASTM SA-479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03 Cond.A; NACE MR 0175-2003; AMS 5648K-02; AMS 5653P-02; ASTM A193/A193M-04c OR B8M, CL1 ASME SA-193/SA-193M-04GR B8M, CL1						<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peiced. Прутки из коррозионностойких (нержавеющих) сталей ковкого, обточенного. <b>STEEL MAKING PROCESS: EAF+AOD</b> СПОСОБ ВЫПЛАВКИ: Электродуговая печь+AOP Round 11.000in/279.40 mm L=4.15m/13.61ft Grade: 316/F316/316L/F316L						<b>QUANTITY:</b> (number of pcs) round O-4563 1x/2076 kg  Delivery condition solution annealed: 1900-2010°F(1040-1100°C)/water термообработка: закалка в воду					
<b>CUSTOMER</b> „DSS INTERNATIONAL SA“ Switzerland  Commodity code RB6L1100/DS																	
<b>ANALYSES, %</b>																	
	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	
HEAT № 95038	.030	.38	1.56	.039	.022	16.85	10.20	2.04	.056	.25	.04	.11	.005	.07	.012	.058	
<b>MECHANICAL PROPERTIES</b>												<b>TECHNICAL REQUIREMENTS:</b> Macrostructure - GOOD GRAIN SIZE: 5 to ASTM E 112 Nonmetallic inclusions ASTM E 45 (Method A) A      B      C      D thin thick thin thick thin thick thin thick 3.0 2.0 1.5 1.5 0.0 0.0 1.0 1.0 ICC-ASTM A262-02a (Method E)-test: O.K. "Dimension/surface defects test, anti-mixing test -- O.K." Ratio of reduction- 6.79:1					
	Yield Strength, KSI(MPa) R <sub>e</sub> (R <sub>eH</sub> )	Tensile Strength, KSI(MPa) R <sub>m</sub> (R <sub>m</sub> )	Elongation, A, %	Reduction of area, 2%	Brinell Hardness HB	Impact strength, KV, J											
REQUIRED	30(205)	75(515)	45	50	140-223	100											
EFFECTIVE	49.4(341)	80.0(553)	59	75	163	227											
Mechanical properties tested in state of delivery																	
US - testing		yes	Results: SEP 1921, 3/ Cc - O.K.														
Radiation free; mercury free. No Weld or Weld repair.																	
Manufacturer: ISC DNEPROSPETSSTAL Date: 29.07.10 Signed:																	
Zaporozhye Made in Ukraine.																	