

73662

06/19/2007 15:41  
JUN-19-2007 12:55  
Mill Test Report

204-694-5591  
TACHEN INTERNATIONAL NJ

MARMON KEYSTONE WPG

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MILL TEST REPORT

TA CHEN INTERNATIONAL CORPORATION  
www.tachen.com

MTR#: VJRB173475 Customer#: MARBUR PO#: 463088GM SO#: CE4308  
Item#: RE8L1100 Bundle#: VJ89214410 Heat#: 73662

**VIRAJ IMPOEXPO**  
(A DIVISION OF VIRAJ PROFILES LTD.)

10 IMPERIAL CHAMBERS, FIRST FLOOR,  
WILSON ROAD, BALLARD ESTATE,  
MUMBAI - 400006 (INDIA)

TEST CERTIFICATE

CUSTOMER:  
VIRAJ USA INC.

262 WEST 39TH STREET  
SUITE 401  
NEW YORK, NY 10018

ORDER NO.  
L18897

PACKING LIST NO. INSPECTION NO. DATE  
IMP/17347 IMP/17347/S 31/01/2007

GRADE  
T-316S16L

BUNDLE NO 99214410

DESCRIPTION:  
STAINLESS STEEL BRIGHT BARS

ROUGH TURNED

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT LBS
1 1/2 INCH	ROUND	RT	12FT-18FT	1	3902

CHEMICAL ANALYSIS

HEAT NO: 73662

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Co
0.020	1.88	0.40	0.021	0.033	10.61	16.70	2.10	0.49	0.078	0.20

TEST RESULT

0.2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
33	80	81	75	160	5

Specifications:

MATERIAL CONFIRMS TO ASTM A276-01b COND. A A479-01 COND. A A192-01B B31 CL1 A270-01 B31 CL1  
ASME SA 182-01 CHEMISTRY ASME SA 182-01 CHEMISTRY ONLY ASME SA 479-01 COND. A SA 192-01 B31 CL1  
SA 270-01 B31 CL1 A192-01B B31 CL1 COND. A (EXCEPT MARKING) A192-01B B31 CL1 A192-01B B31 CL1  
UNS A192-01B B31 CL1 CHEMISTRY ONLY (NAME A192-01B) GRAIN SIZE AS PER ASTM E112-02a 1,  
IMPROVED MACHINABILITY QUALITY INTERGRANULAR CORROSION TEST  
PASTED IN ACCORDANCE WITH ASTM A382-03 PRACTICE E.

Remarks:

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS,  
MICR FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES, MACRO GOOD,  
MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME  
1600 h, WATER QUENCHED, MELT SOURCE/ACD.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

*J. Swarna*  
WORKS INSPECTOR