

**VIRAJ IMPOEXPO LIMITED**

10 IMPERIAL CHAMBERS, 1ST FLOOR  
WILSON ROAD, BALLARD ESTATE,  
MUMBAI 400 033, INDIA

**TEST CERTIFICATE**

**CUSTOMER:**

ORDER NO.  
L17820

PACKING  
LIST NO.  
IMP16662

INSPECTION NO  
IMP166523

DATE  
09/10/2006

BUNDLE NO.  
99109177

GRADE  
T-316/S16L

**DESCRIPTION:**  
STAINLESS STEEL ERG-8 BARS

**ROUGH TURNED**

SIZE (DIN)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
7	ROUND	RT	12 - 20	1	1601

**CHEMICAL ANALYSIS**

HEAT NO.												
C	Mn	Si	S	P	NI	Cr	Mo	Cu	N	Co		
0.017	1.75	0.38	0.020	0.037	10.03	16.60	2.08	0.46	0.077	0.17		

**TEST RESULT**

2% YIELD STRENGTH ksi	TENSILE STRENGTH ksi	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
39	84	60	72	172	5

**Specification :**

MATERIAL CONFORMS TO ASTM A276-00a COND. AA479-01 COND A, A193-01B8M CL1, A320-01B8M CL1, ASME SA 193-00 (CHEMISTRY ONLY) ASME SA179-08 COND A, SA193-01 B8M CL1 SA 320-08 B8M CL1, AMS 5548-01 SA 193A COND A (EXCEPT MARKING), AMS 5548L, AMS 5533E (EXCEPT MARKING), UNS S-31600S-31603 ASTM. A193-01b (CHEMISTRY ONLY), NACE MR-0175, GRAIN SIZE AS PER ASTM E112-99a1, IMPROVED MACHINABILITY QUALITY, INTERGRANULAR CORROSION TEST PASSED IN ACCORDANCE WITH ASTM A262-98 PRACTICE E.

**Remarks :**

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO: GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1hr/Inch, WATER QUENCHED, MELT SOURCE ADD.

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

WORKS INSPECTOR

P14536