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**VIRAJ IMPOEXPO LIMITED**10 IMPERIAL CHAMBERS 1ST FLOOR  
WILSON ROAD BALLARD ESTATE  
MUMBAI 400038 INDIA

REVISED ON 30/01/10

**TEST CERTIFICATE**

<b>ORDER NO .</b> P-708	<b>PACKING LIST NO.</b> IMP/15954	<b>INSPECTION NO</b> IMP/15954/6	<b>DATE</b> 28/06/2006
<b>BUNDLE NO .</b> 186437,187389	72221		<b>GRADE</b> 316/316L

**DESCRIPTION :**  
STAINLESS STEEL BRIGHT BARS**ROUGH TURNED**

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
6 1/4	ROUND	RT	12' - 14'	2	2489

**CHEMICAL ANALYSIS**

HEAT NO.		72221									
C	Mn	Si	S	P	NI	Cr	Mo	Cu	N	Co	
0.029	1.71	0.49	0.020	0.039	10.08	16.70	2.06	0.49	0.074	0.20	

**TEST RESULT**

.2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
36	80	62	74	170	5

**Specification :**

MATERIAL CONFIRMS TO DIN EN 10088-3:2005: 1.4401/1.4404. EN 10222-5 AND EN 10272 COND-A & ASTM A182/A-182M-06, A276-06 COND A, A479/A479M-06a COND A, A193/A193M-06a B8M CL-1, A320/A320M-05a B8M CL-1, A484-06b, A388/A388M-05, ASME SA182-04, SA479-04, SA 193-04 B8M CL-1, SA320-04 B8M CL-1, ASTM A314-

2002. IGC SATISFACTORY AS PER ASTM A 262-02a PRACTICE E. AMS 5648J / AMS 5653F (EXCEPT MARKING) , QQ-S-763F NACE-MR0175-2002. SAE-AMS-S-7720A, MIL- 862 B . AISI 316/316L & UNS#S31600/S31603. CERTIFICATION AS PER EN 10204-3.1.

**Remarks :**

MATERIAL IS FREE 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 03HRS. WATER QUENCHED.

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



**WORKS INSPECTOR**  
S. SUVARNA