

76633

**VIRAJ PROFILES LIMITED**

10 IMPERIAL CHAMBERS, 1ST FLOOR,  
WILSON ROAD, BALLARD ESTATE,  
MUMBAI - 400038 INDIA.

63820

**CUSTOMER:**

**TEST CERTIFICATE**

ORDER NO. P-829	PACKING LIST NO. IMP/18347	INSPECTION NO. IMP/18347/2	DATE 21/03/2008
BUNDLE NO. 270111B			GRADE 316/316L

**DESCRIPTION:**  
STAINLESS STEEL BRIGHT BARS

Part # 06-FOE-40/80

**ROUGH TURNED**

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
9	ROUND	RT	12FT - 20FT	1	2793

**CHEMICAL ANALYSIS**

HEAT NO.	76633										
C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Ca	
0.020	1.80	0.51	0.020	0.040	10.58	16.70	2.04	0.40	0.070	0.12	

**TEST RESULT**

.2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
37	81	81	74	162	5


**Specification:**

MATERIAL CONFIRMS TO ASTM A276-06 COND. A, A479/A479M-06a CON A, A183/A183M-06a B8M CL1, A320/A320M-06a B8M CL1 ASME SA 182-88 (CHEMISTRY ONL ASME SA476-88 COND A, SA183-96 B8M CL1 SA 320-88 B8M CL1, AMS QQ-S-763B-06 COND A (EXCEPT MARKING), AMS 5648J, AMS 5653F (EXCEPT MARKING) UNS-31602S-31603 ASTM A182/A182M-05 (CHEMISTRY ONLY), NACE-MR-0175, GRAIN SIZE AS PER ASTM E112-85a1, IMPROVED MACHINABILITY QUALITY INTERGRANULAR CORROSION TEST PASSED IN ACCORDANCE WITH ASTM A263-02a PRACTICE E. CERTIFICATE AS PER EN 10224-3.1b

**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 1H/INCH, WATER QUENCHED. MELT SOURCE: AOD.

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

  
**WORKS INSPECTOR**  
 S. SUVARNA