

**VIRAJ PROFILES LIMITED**

10 IMPERIAL CHAMBERS, FIRST FLOOR,  
WILSON ROAD, BALLARD ESTATE,  
MUMBAI 400038 INDIA

**CUSTOMER:**

ORDER NO. P00927

BUNDLE NO. 2051315, 2051316

**DESCRIPTION:**  
STAINLESS STEEL BRIGHT BARS

**TEST CERTIFICATE**

PACKING LIST NO. IMP/102153  
INSPECTION NO. IMP/102153/17  
DATE 02/06/2009  
GRADE 316/316L  
1.4401/1.4404

**SMOOTH TURNED**

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
3 3/4	ROUND	ASTM A484	12' - 14'	6	3153

**CHEMICAL ANALYSIS**

HEAT NO. 80158

C	Mn	Si	S	P	NI	Cr	Mo	Cu	N	Co
0.020	1.78	0.41	0.020	0.037	10.07	16.77	2.04	0.37	0.079	0.15

**TEST RESULT**

.2% YIELD STRENGTH KSI		TENSILE STRENGTH KSI		ELONGATION %		REDUCTION OF AREA %		HARDNESS BHN		GRAIN SIZE	
40	86	60	71	169	6						

**Specification:**

MATERIAL CONFIRMS TO ASTM A182-182M-05, A276-06 COND A, A479/A479M-06a COND A, A193/A193M-06a B8M CL-1, A320/A320M-05a B8M CL-1, A484 06b, A380/A380M-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, QQ-S-763F, NACE-MR0175-2002 MIL-S-7720A AM2 ASI 316/316L UNS#S31600/S31603. CERTIFICATION AS PER EN 10204-3.1, AMS 5653F

**Remarks:**

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD REPAIRS, MICRO-FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES, MACRO-GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 2 1/2 HRS, WATER QUENCHED, COUNTRY OF ORIGIN: INDIA. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

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

**S.SUVARNA**  
**WORKS INSPECTOR**

*(Handwritten Signature)*

*(Handwritten Signature: 80158)*

*(Handwritten Text: 0001469)*