

# 88574

054642

## VIRAJ PROFILES LIMITED

## VIRAJ

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Works: SURVEY No- 114, 119 & 120, VILL. Mahagaon, Tal: Palgar, Dist: Thane-401501, MAHARASTRA, INDIA, vielqc@viraj.com

### 3" TBR 40

### TEST CERTIFICATE

ORDER NO	PACKING LIST NO	INSPECTION NO	DATE
	51/934772/13	100001501875	29.01.2012
		GRADE	HEAT No
		316/316L	88574 <i>df</i>

BUNDLE NO:  
5175098

DESCRIPTION  
STAINLESS STEEL BRIGHT BARS

SMOOTH TURNED

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
3 1/4"	ROUND	ASTM A484	12' - 14'	3	1,093.000 LB

### CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0220	1.710	0.400	0.0210	0.0400	16.880	10.000	0.600	2.000	0.180	0.0690

### TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS
42.0	87.0	57.0	70.0	178.0	6.0

### 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-09, A276-10 COND A, A479/A479M-06a COND A, A193/A193M-10a B8M CL-1, A320/A320M-05a B8M CL-1, A484-10, A388/A388M-05, ASME SA 182-04, SA 479-04, SA 193-04 B8M CL-1, SA 320-04 B8M CL-1, ASTM A314-2002 IGC SATISFACTORY AS PER ASTM A 262-02a PRACTICE E, AMS 564U / AMS 565JF (EXCEPT MARKING), QQ-S-763F, NACE-MR0175-2002, SAE-AMS-S-7720A, MIL-S-862 B, AISI 316/316L & UNS#S31600/S31603. CERTIFICATION AS PER EN 10204-3.1.

### 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 20HRS, WATER QUENCHED. MELT SOURCE: AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION. COUNTRY OF ORIGIN: INDIA.

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

*K R K Murthy*  
WORKS INSPECTOR  
K R K MURTHY