

VIRAJ PROFILES LIMITED

VIRAJV®

10 Imperial Chambers, 1st Floor,
Wilson Road, Mumbai 400 038
INDIA

86269 .

CO34664
1/2

3rd TR

TEST CERTIFICATE

| | | |
|-----------------|---------------|------------|
| PACKING LIST NO | INSPECTION NO | DATE |
| IMP/925942/11 | 100001110622 | 19.05.2011 |
| GRADE | HEAT No | |
| 316/316L | 86269 | |

BUNDLE NO :
5193592 ,5193591 ,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

SMOOTH TURNED

| SIZE | SHAPE | TOLERANCE | LENGTH | PIECES | WEIGHT |
|--------|-------|-----------|-----------|--------|--------------|
| 3 1/4" | ROUND | ASTM A484 | 12' - 14' | 6 | 2,178.000 LB |

CHEMICAL ANALYSIS

| %C | %Mn | %Si | %S | %P | %Cr | %Ni | %Cu | %Mo | %Co | %N2 |
|--------|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0.0220 | 1.710 | 0.480 | 0.0240 | 0.0370 | 16.600 | 10.020 | 0.350 | 2.040 | 0.280 | 0.0725 |

TEST RESULTS

| 0.2% yield strength ksi | Tensile Strength ksi | Elongation % | Reduction Of Area % | Hardness BHN | Grain Size NOS |
|----------------------------|-------------------------|-----------------|------------------------|-----------------|-------------------|
| 42.0 | 86.0 | 58.0 | 70.0 | 179.0 | 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-06, A276-06 COND A, A479/A479M-06a COND A, A193/A193M-06a B8M CL-1, A320/A320M-05a B8M CL-1, A484-C6b, 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-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 01 HRS, 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