

## Ananka Fasteners Pvt. Ltd.

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### Material Test Certificate according to EN 10204-2004 : 3.1

|            |            |        |   |             |                            |            |        |               |            |
|------------|------------|--------|---|-------------|----------------------------|------------|--------|---------------|------------|
| Customer : | SAMPLE MTC | Date : | - | Material :  | ASTM A194 GRADE 9C ED-2026 |            |        | TC No. :      | S43/26-XX  |
| SWO No. :  | -          | Date : | - | Bar Shape : | Round Bar                  | Bar Size : | 28 mm  | TC Date :     | 16.04.20XX |
| PO No. :   | -          | Date : | - | RM TC No. : | -                          | Lot No. :  | AKF-XX | INV. No./Date | -          |

### Chemical Composition Results %

| Elements : | C     | Mn   | P     | S     | Si   | Cr    | Ni    | Mo   | N    | Sn | Cu   | Al | B | Pb | Ca |
|------------|-------|------|-------|-------|------|-------|-------|------|------|----|------|----|---|----|----|
| Min. :     | -     | -    | -     | -     | -    | 20.00 | 23.50 | 6.00 | 0.18 | -  | -    | -  | - | -  | -  |
| Max. :     | 0.030 | 2.00 | 0.040 | 0.040 | 1.00 | 22.00 | 25.50 | 7.00 | 0.25 | -  | 0.75 | -  | - | -  | -  |
| Actual :   | 0.018 | 1.05 | 0.021 | 0.007 | 0.35 | 20.85 | 24.12 | 6.72 | 0.21 | -  | 0.13 | -  | - | -  | -  |

|             |      |            |      |          |              |
|-------------|------|------------|------|----------|--------------|
| Lab TC No.: | XXXX | Lab Name : | XXXX | Result : | Satisfactory |
|-------------|------|------------|------|----------|--------------|

### Heat Treatment Records

| Heat Treatment Process | Hardening Temp. °C | Tempering Temp. °C | Solution Annealing Temp. °C                |
|------------------------|--------------------|--------------------|--------------------------------------------|
| Temp. °C Min. :        | -                  | -                  | -                                          |
| Temp. °C Recorded :    | -                  | -                  | -                                          |
| Soaking Time :         | -                  | -                  | -                                          |
| Quenching Medium :     | -                  | -                  | Carbide Solution Treated & Strain Hardened |

### Mechanical Testing Results

| Mechanical Properties | Tensile Strength (Mpa) | Yield Strength 0.2 % Offset (Mpa) | % Elongation (GL-50mm) | % Reduction Area | Hardness (HRC) | Proof Load (Kn) |
|-----------------------|------------------------|-----------------------------------|------------------------|------------------|----------------|-----------------|
| Specified             | Min.                   | -                                 | -                      | -                | -              | 80.9            |
|                       | Max.                   | -                                 | -                      | -                | 32             | -               |
| Actual Results:       | -                      | -                                 | -                      | -                | 27, 28, 30     | 81.7            |

| Impact Test Results | Charpy V Notch Impact Test | AVG Value (J) | Lateral Expansion                  |
|---------------------|----------------------------|---------------|------------------------------------|
|                     | Specified Value (J)        | -             | Value 1 Value 2 Value 3 Avg. Value |
|                     | Achieved Value (J)         | -             | -                                  |

|             |      |            |      |          |              |
|-------------|------|------------|------|----------|--------------|
| Lab TC No.: | XXXX | Lab Name : | XXXX | Result : | Satisfactory |
|-------------|------|------------|------|----------|--------------|

### Item Details

| Po Sr. No. | Item Code | Drawing No./Rev. No. | Item Description                   | Length | Quantity  |
|------------|-----------|----------------------|------------------------------------|--------|-----------|
| 1          | -         | -                    | Hex Nut M16-2P, ASTM A194 GRADE 9C | -      | 10.00 NOS |
|            |           |                      |                                    |        |           |
|            |           |                      |                                    |        |           |

#### Remarks: -

- 01) Material is free from visible contamination
- 02) 100% visual inspection carried out & found free from defects
- 03) Chemical, Mechanical & surface test carried out at room temperature 20°C
- 04) Material met 100% of standard compliance requirements and actual test results are recorded and verified against the above specification table
- 05) No visible cracks
- 06) Above mentioned items verified to fully meet or to be within or to be in the Purchase order requirement
- 07) All dimensions are as per the Specification
- 08) Above mentioned items are in line to the requirements of TDS No. 22 (if applicable)

We confirm that above mentioned Items was Manufactured, Sampled, Tested and Inspected in accordance with the subjected Customer's Purchase Order and as applicable Drawings, Material Specifications, Codes & Standards and the results of the items have been determined to meet the users' requirements.

For Ananka Fasteners Pvt. Ltd.

For Client / TPI