

MECHATRONIC ENGINEERS
UNIVERSAL ENGINEERING SERVICES, VISNAGAR

Test Report(TENSILE STRESS vs %STRAIN)

Date: 30-09-2023

Sample No. : 366
Dia : 32 mm

Job No: 2023046

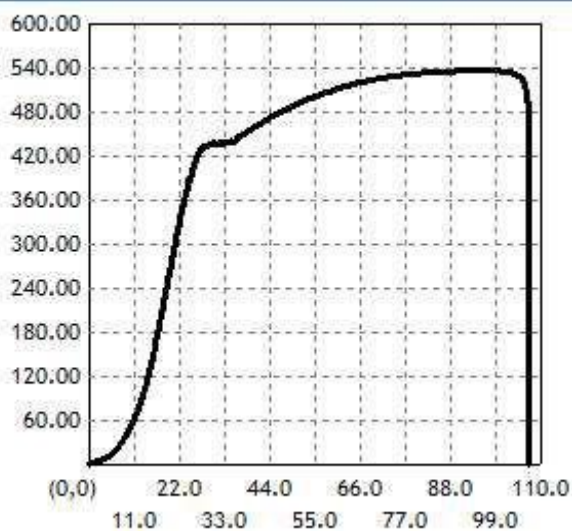
Test Data

| | | |
|-----------------------------|---|-------------------|
| Serial No. | : | 32 |
| Test Type | : | Stress Vs %Strain |
| Specimen Type | : | TOR/TMT Steel |
| Weight (gms) | : | 6198.000 |
| Length (mm) | : | 1000.000 |
| C/S Area (mm ²) | : | 789.551 |
| Original Gauge Length (mm) | : | 160.000 |
| Final Gauge Length (mm) | : | 186.000 |
| Ext. Gauge Length (mm) | : | 25.000 |
| Pre Load (%) | : | 0.200 |
| Machine Capacity (kN) | : | 1000.000 |

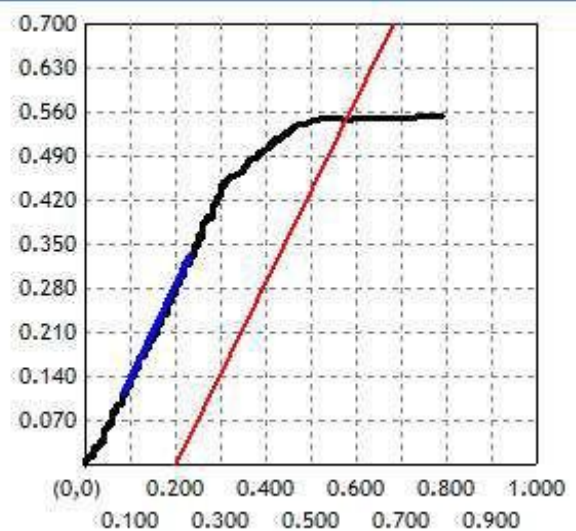
Test Results

| | | |
|--|---|---------|
| Ultimate Tensile Load (kN) | : | 536.800 |
| Ultimate Tensile Strength (N/mm ²) | : | 679.880 |
| Percentage Elongation (%) | : | 16.250 |
| Breaking Load (kN) | : | 475.550 |
| 0.2% Proof Stress (N/mm ²) | : | 547.620 |
| Yield Stress (N/mm ²) | : | 547.620 |
| 0.2% Proof Load (kN) | : | 432.374 |
| Yield Load (kN) | : | 432.374 |

Y-Axis Load (kN) VS X-Axis Disp (mm)



Y-Axis Stress (kN/mm²) VS X-Axis Strain (%)



Tested by : Hardik Nai

Checked by : Kishan Patel