

1.103 CIVIL ENGINEERING MATERIALS LABORATORY (1-2-3)

TENSILE TESTING AND STRESS STRAIN PROPERTIES OF STEEL

DATA SHEET

DATE 2/04 All dimensions in mm Group No. combined Lab No. #2

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<u>Device</u>	<u>Force</u>	<u>Actuator Disp.</u>	<u>Extensometer</u>
<i>Calibration. Factor</i>	<u>12.5 KN/V</u>	<u>12.7 mm/V</u>	<u>5% /V</u>
<i>DAQ Channel</i>	<u>4</u>	<u>3</u>	<u>2</u>
<i>Input Voltage</i>	<u>1.000</u>	<u>1.000</u>	<u>1.000</u>

Calibration Reference Point 25.4 @ 0.00 V

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Material Type Steel Gauge Length 66.0 File Name a1-thick
Diameter 9.50 , 9.51 , 9.51 , 9.51 = _____
Zero Load 0.00 Zero Actuator Disp. _____ Zero Extensometer _____
Diameter of Neck 5.66 Final Length 75.61

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Material Type Steel Gauge Length 127.16 File Name b-long
Diameter 7.80 , 7.83 , 7.81 , 7.83 = _____
Zero Load 0.00 Zero Actuator Disp. _____ Zero Extensometer _____
Diameter of Neck 4.55 Final Length 140.54

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Material Type Steel Gauge Length 65.13 File Name B2-std
Diameter 7.84 , 7.85 , 7.83 , 7.84 = _____
Zero Load 0.00 Zero Actuator Disp. _____ Zero Extensometer _____
Diameter of Neck 4.71 Final Length 76.23

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Material Type Steel Gauge Length 66.73 File Name A2-thin
Diameter 6.35 , 6.32 , 6.33 , 6.33 = _____
Zero Load 0.00 Zero Actuator Disp. _____ Zero Extensometer _____
Diameter of Neck 3.76 Final Length 75.1