

MECHANICAL LABORATORY, NAVAL DOCKYARD DEPT.

TEST OF ... SCREW STAY BY Sub-lieut. E. Dharagul
KIND OF TEST ... TENSION
MATERIAL ... STEEL
MACHINE USED 50-ton "AVERY" DATE 10th MAY 1949.
ORIGINAL GAUGE LENGTH 50 m/m DIAMETER 19.5 m/m AREA 298 mm²
FINAL GAUGE LENGTH 71 m/m DIAMETER 11.85 m/m AREA 110 mm²
TOTAL ELONGATION 21 m/m PERCENTAGE ELONGATION 42.0 ...
FINAL AREA 110 mm² PERCENTAGE CONTRACTION OF AREA 63.15
MAXIMUM LOAD 12,100 kg TENSILE STRESS 40.6 kg/mm²
BREAKING LOAD 9,100 kg BREAKING STRESS 30.5 kg/mm²
LOAD AT UPPER YIELD POINT 7,950 kg UPPER Y.P. STRESS 26.7 kg/mm²
LOAD AT LOWER YIELD POINT 7,850 kg LOWER Y.P. STRESS 26.3 kg/mm²



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010089-010095-0258