

# RC 910.09

# Manual of Testing

## CROSS SECTIONAL AREA OF A MOULD

### 1. SCOPE

This method describes the procedure for the determination of the cross sectional area of a cylindrical mould. It is used where the cross sectional area is required for the determination of the volume of a mould and where the volume of the mould cannot be determined by using water.

### 2. APPARATUS

Bore gauge, internal micrometer or vernier caliper which is capable of measuring to an accuracy of 0.05 mm.

### 3. PROCEDURE

- (a) Record the laboratory identification of the mould and the date of calibration.

- (b) Deburr the edges of the mould and clean the inside surfaces.

- (c) Measure the internal diameter of the mould at 4 positions spaced 45 degrees apart in three planes (e.g. at 10 mm from the top, middle and 10 mm from the bottom).

### 4. CALCULATIONS

Calculate the mean diameter and the cross sectional area in each plane and then the overall mean area.

### 5. REPORT

- Maintain a copy of the worksheet in the laboratory.

