



This catalog outlines the standardized components and precision instrumentation required for determining the thermal conductivity (K) of a rubber tube specimen, typically utilized in thermodynamic and material testing laboratories.

1. Test Specimen

Component: Rubber Tube Specimen

Application: Serves as the primary medium for radial heat transfer analysis.

Specifications: Standard laboratory-grade vulcanized rubber, uniform wall thickness, optimized for steam or heated fluid circulation.

2. Measurement & Collection Instrumentation

Component: Measuring Cylinder

Capacity: 10 mL

Resolution: High-graduation accuracy for precise volumetric measurement of condensed fluid or effluent over time.

Component: Digital Stopwatch

Function: Time-interval logging to determine steady-state heat transfer rates.

Precision: Standard split-second tracking.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Component: Analytical Balance

Function: Mass determination of the collected condensate or specimen constraints.

3. Dimensional Metrology Tools

Component: Vernier Calipers

Range: 5 inches (approx. 125 mm)

Application: Accurate measurement of the inner diameter (r1) and outer diameter (r2) of the rubber tube specimen.

Component: Meter Scale

Application: Measurement of the effective length (L) of the tube exposed to the temperature gradient.

Graduation: Metric (mm/cm).

4. Structural Support Systems

adjustable structural support for elevating and positioning the rubber tube, glassware, and auxiliary heating elements during testing.

Features: Heavy cast-iron base with chrome-plated steel rods for thermal and chemical resistance.

Component: Retort Stands

Application: Provides rigid, adjustable structural support for elevating and positioning the rubber tube, glassware, and auxiliary heating elements during testing.

Features: Heavy cast-iron base with chrome-plated steel rods for thermal and chemical resistance.

Note: Hotplate isn't included

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