Saybolt Viscometer Test Set

LT-AS0060 | Digital two-tube Saybolt viscosity testing

Furol / Universal orifices • Controlled oil bath • 60 ml flasks



2 specimens

SIMULTANEOUS TEST CAPACITY

60 ml

RECEIVING FLASK VOLUME

ASTM D88 • AASHTO T72

Photographs and Test Components

Digital temperature control, two tubes, bath and receiving flasks

The LT-AS0060 is a two-tube system for measuring the time required for a specified volume to pass through a calibrated orifice. A controlled oil bath and interchangeable Furol / Universal orifices support Saybolt viscosity determination.

DIGITAL TEMPERATURE

Bath temperature is controlled digitally and monitored throughout testing.

TWO TEST TUBES

Two specimens share the bath conditions; select the appropriate Furol or Universal orifice.



60 ml GLASS FLASKS

Two Saybolt receiving flasks are used for flow-time measurements at the specified volume.

CONTROLLED OIL BATH

Heater, stirrer and cooling coil support adjustment of the test temperature.



Digital bath temperature control and front panel



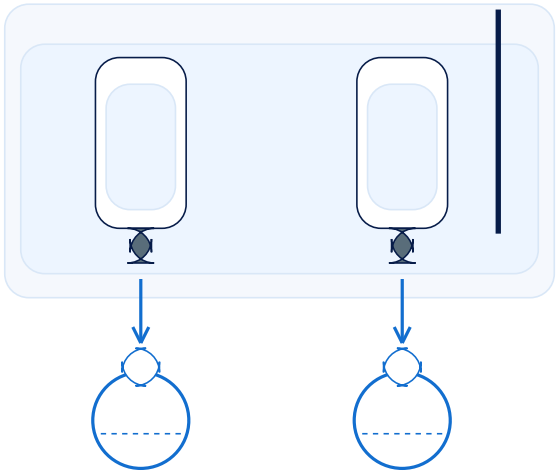
Two 60 ml Saybolt receiving flasks

LT-AS0060

Efflux Time at Controlled Temperature

Select orifice • Stabilise temperature • Start flow • Record time

OIL BATH + TWO TUBES + 60 ml COLLECTION



MEASUREMENT: EFFLUX TIME FOR A SET VOLUME

ORIFICE: FUROL OR UNIVERSAL

CONDITION: KEEP SPECIMEN TEMPERATURE STABLE

Report time with temperature and orifice type

REPRESENTATIVE SAYBOLT FLOW DIAGRAM • NOT TO SCALE

Prepare Orifice and Specimen

Select the method-appropriate orifice. Load the tube and position the receiving flask.

Stabilise the Temperature

Bring the oil bath to test temperature. Verify specimen temperature equilibrium.

Measure Efflux Time

Start timing when opening the outlet. Stop at the flask volume mark and record the time.

At the selected test temperature, the specimen flows through a calibrated orifice. Measure the time needed to reach the specified volume in the Saybolt flask. Evaluate the result with orifice type, temperature and flow time stated together. The two-tube arrangement permits two determinations under shared bath conditions.

Test Temperature and Thermometer

The instrument's test range is approximately 21-99 °C. The LT-G0185 digital thermometer can measure up to 300 °C; this value describes the thermometer's measuring limit.

Stirring promotes uniform oil bath temperature. Stabilise specimen temperature before starting the test and record it together with the measured time.

Furol, Universal and Set Contents

LT-AS0060/1 Furol and LT-AS0060/2 Universal orifices are listed as two of each type. Select the orifice according to specimen characteristics and the applicable method.

The set includes oil bath, heater, digital thermoregulator, stirrer, cooling coil, thermometer and two 60 ml flasks. Heat transfer oil is identified as LT-AS0060/4 in a 5 L quantity.

Technical Specifications and Accessory Codes

LT-AS0060 | Two-tube Saybolt system and test components

Technical Specification	Value / Description
Product Code	LT-AS0060
Test Capacity	2 specimens • Digital two-tube system
Test Temperature	Approximately 21-99 °C
Bath System	Oil bath • Heater • Stirrer • Cooling coil
Receiving Flasks	2 glass Saybolt flasks • 60 ml
External Dimensions / Weight	45 × 30 × 55 cm • 12 kg
Power / Methods	220 V • 50-60 Hz • 1 phase • ASTM D88 / T72

Accessory Code	Description
LT-AS0060/1	Furol orifices • 2 pcs.
LT-AS0060/2	Universal orifices • 2 pcs.
LT-AS0060/3	Saybolt viscosity flask • 60 ml
LT-AS0060/4	Heat transfer oil • 5 L
LT-G0185	Digital thermometer • 300 °C measuring limit

Check Volume Mark and Temperature Together

Verify the flask volume mark and selected orifice. Record time with temperature, specimen identification and method; evaluate results according to the applicable standard.

Saybolt Viscosity Workflow

01
Prepare
Select the orifice and load the specimen.

02
Stabilise
Stabilise bath and specimen temperature.

03
Measure
Time the flow to the specified volume.

04
Record
Report time, temperature and orifice type.

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