



APPLICATIONS

Softening Point

BITUMEN
HOT COATINGS
RESINS
PITCH
TAR
ROAD MARKING MATERIALS

Automated Ring and Ball Tester

RB36 5G

ISL's modern and easy to use Ring & Ball instrument automatically determines softening points of many different substances.

The RB36 5G, designed for measuring product temperatures from 0°C to 220°C, simplifies testing and **increases productivity, repeatability and reproducibility.**

The instrument enables **simultaneous testing of two samples** with independent monitoring and results display of each. Simply load the sample and with a few keystrokes, the test is started. Bath temperature and ball movement are **precisely controlled** according standard test methods.

This instrument integrates the top of the art regulation system specially designed for difficult method heating rate regulations. Heating rate is displayed in real-time and automatically stored with the result.

ADVANTAGES

- **Accurate determination of softening point**
- **Simple and easy to use**
- **Versatile, products test program**
- **On-site Quality-Check tracking**
- **Economical**

METHODS

ASTM D 36
ASTM E 28
EN 1427
IP 58
ISO 4625
DIN 52011
NF T 66-008
Optional kit for EN 1871
Wilhelmi Test

ISL RB36 5G Ring and Ball Tester

The low cost option for simplicity and precision

SPECIFICATIONS	
Ordering Information	RB36 5G Ring & Ball Tester, Includes accessories for bitumen test (beaker, rings, balls, test holder, for ASTM D 36, EN 1427 or equivalent method)
Standard Test Methods	ASTM D 36, ASTM E 28, EN 1427, IP 58, ISO 4625, DIN 52011, NF T 66-008 and Optional kit for EN 1871, Wilhelmi test
Product Programs	Locally stores up to 40 product configuration programs, including test parameters, standard test method, liquid bath, pre-heating mode and starting temperature
Operation	<p>Temperature Range Testing from 0°C to 220°C (32 – 428°F)</p> <p>Cooling Automatic cool down</p> <p>Heating Safe and powerful low voltage heating element protected with a ceramic plate.</p> <p>Heating Rate Heating rate stability : 5°K/min +/-0.5°K; heating can be shown on the screen during the test and stored with result.</p> <p>Ball Detection Infrared light barrier with adjustable response time from 0.1 to 0.9 seconds</p> <p>Bath Media Water, glycerin, glycol, silicon oil</p> <p>Stirring Magnetic bar</p>
Traceability	<p>Operators Memorizes up to 10 operator names</p> <p>Test Condition Check Message warning and audible alarms for incorrect test conditions</p> <p>Temperature Probe Built-in memory chip; automatic recognition of probe at plug-in, gathers ID, offset values and calibration history records; 5 calibration points memorised</p> <p>Test Parameters Main test parameters stored in the database with results, including heating rate records</p> <p>Alarm Tracking All messages are stored in the database with results</p>
Calibration & Diagnostics	Automatic calibration with programmable frequency; 5-point probe offset correction table memorized in the PT100 thermometer memory chip; automatic diagnostic on analyzer functions; upload/download service features via PC.
Documentation	Detailed test report, date & time stamped; on-screen real time display of temperature and time with heating rate table; 99 results stored in memory; output to printer; transmitted to a PC and/or LIMS via built-in serial link.
Requirements	<p>Electrical 100-240V/50-60Hz auto-switching; power: 750 W; CE compliant</p> <p>Ambient Conditions Operation: recommended 15 – 30°C (30–86°F) 80% relative humidity at 25°C (40°F) Storage: 0 to +40°C (0 to +104°F)</p> <p>Dimensions & Weight 25cm (9.85") W x 50cm (19.7") H x 45cm (17.7") D (with testing device in place); 17 kg (99.2 lbs)</p>
Options & Accessories	<p>EN 1871 "Wilhelmi test" A specific optional package for performing this test is available.</p> <p>Printer Parallel DeskJet or Dot Matrix printer</p> <p>Handling and Test Assistance Some accessories to help the samples manipulation and accessories storage in the laboratory have been developed or are under development; please, ask to your local representative for further information.</p> <p>PC Software Automatic Laboratory Analyzer Network. Enables multi-analyzer networking with centralised operation and data management.</p>

Due to continuing product development, specifications subject to change at any time without notice.

Time	°C	°C/min	Time	°C	°C/min
0:00	30.2		7:00	51.4	5.0
3:00	34.5		8:00	56.5	5.1
4:00	36.4	5.1	9:00	61.4	4.9
5:00	41.5	5.0	10:00	66.4	5.0
6:00	46.5	4.9	11:00	71.4	5.0

sample heating rate table with result

YOUR LOCAL REPRESENTATIVE:

FOR ADDITIONAL INFORMATION

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