Pendulum Skid Resistance Tester

LT-A1044 | Friction pendulum for field and laboratory use

Rubber slider • Adjustable contact distance • Direct scale reading



Wet / dry

TEST SURFACE CONDITIONS

17 kg

APPROXIMATE INSTRUMENT WEIGHT

ASTM E303 • EN 13036-4 • Surface friction assessment by the pendulum method

LT-A1044

Photograph and Instrument Components

Pendulum arm, rubber slider, reading scale and levelling feet

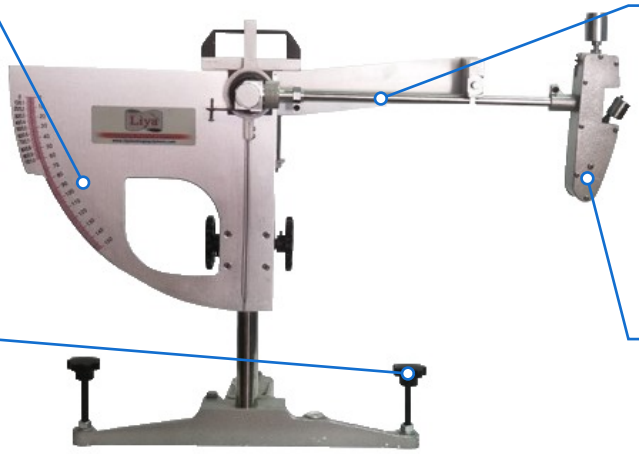
LT-A1044 evaluates surface friction from the energy loss generated during rubber-slider contact. The operator reads the result directly from the scale. The portable system can be used for field and laboratory measurements.

READING SCALE

Allows the measurement value to be read directly after the pendulum swing.

PENDULUM ARM

The arm is released from its starting position and carries the slider over the test surface.



LEVELLING FEET

Adjust to balance the instrument on the test area. Check the level before taking measurements.

RUBBER SLIDER

The slider at the pendulum end contacts the surface. Set its contact distance according to the method.



Reading scale and pendulum pivot



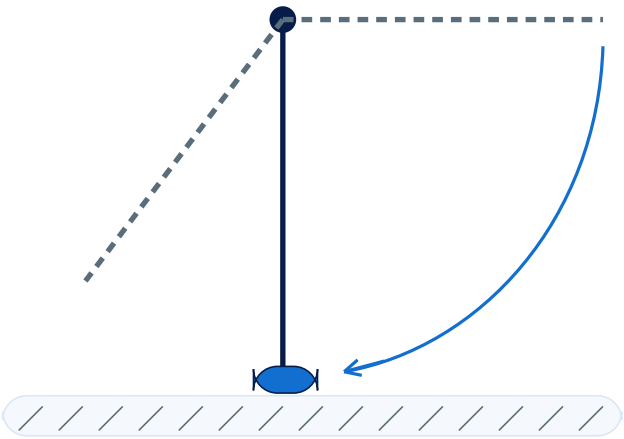
Rubber-slider section at the pendulum end

LT-A1044

Pendulum Motion and Surface Contact

Level the instrument • Set contact • Apply swings • Read the scale

PENDULUM + RUBBER SLIDER + SURFACE



CONTROLLED PENDULUM SWING

RUBBER SLIDER CONTACTS THE SURFACE

CONTACT: SET ACCORDING TO THE METHOD

RESULT: PENDULUM FRICTION VALUE

OPERATING PRINCIPLE • REPRESENTATIVE SIDE VIEW • NOT TO SCALE

Prepare Surface and Tester

Clean the test area and level the instrument. For wet tests, prepare the surface with water as prescribed.

Adjust Contact and Swing

Check slider contact distance. Complete zero checks and preliminary swings according to the method.

Read and Record

Repeat measurements and read the scale. Record direction, surface condition and temperature with results.

As the rubber slider passes over the surface, friction reduces the energy of the pendulum. The indicator converts this effect into a measurement value. Under the same method and surface conditions, higher readings indicate greater friction; consistent conditions support comparisons.

Wet and Dry Surface Measurements

Assess roads, pavements, pedestrian areas and airport surfaces in the field or laboratory. Record wet and dry results separately with their test conditions.

Direction, texture, contamination and temperature can affect readings on the same surface. Repeat measurements in representative areas rather than applying one local reading to the whole surface.

Slider Checks and Interpretation

Inspect the rubber slider before each series. Wear, hardening or contamination can alter its response. Confirm free pendulum movement and instrument level.

ASTM E303 and EN 13036-4 describe pendulum test methods. Do not directly equate readings from different friction instruments; identify the applied method and slider conditions when reporting results.

LT-A1044

Technical Specifications and Test Workflow

LT-A1044 • Friction pendulum and surface measurement conditions

Technical Specification	Value / Description
Product Code	LT-A1044
Instrument Type	Friction pendulum / pendulum tester
Measurement Principle	Energy loss during rubber-slider contact
Test Conditions	Wet and dry surfaces
Application	Field and laboratory
Contact System	Rubber slider at the pendulum end
Contact Distance	Adjustable before testing
Result Reading	Instrument reading scale
Installation	Support feet with levelling adjustment
Overall Dimensions	Approx. 40 × 75 × 75 cm
Instrument Weight	Approx. 17 kg
Related Test Methods	ASTM E303 / EN 13036-4

Record Test Conditions with the Results

Record wet or dry condition, measurement direction, temperature and slider condition. Evaluate repeated readings by the same method; avoid direct comparisons between different methods.

From Surface to Pendulum Test Result

01
Prepare
Clean the surface and level the instrument.

02
Set Contact
Check slider distance and zero setting.

03
Measure
Apply preliminary swings and repeat readings.

04
Record
Record scale values and test conditions.

Product Page | liyatest.com.tr/en/urun/pendulum-skid-resistance-tester/