



# STATIC FRICTION TESTER

Measures the static friction between two materials in two directions.

For:



✓ PAPER



✓ BOARD



✓ ProbeNet-capable

## MOST IMPORTANT BENEFITS

- ✓ Quick clamping due to magnetic clamps
- ✓ Static friction measuring in two directions
- ✓ Presetable number of turnings and adjustable rotation speed
- ✓ Display of the single slope angles as well as statistics

## PRODUCT DESCRIPTION

The static friction tester consists of a housing with integrated digital display and a moving platen located on the front. On this is located a quick clamp mechanism with magnetic clamping, which makes inserting the sample very simple. Sensors are integrated within the clamping bar, and these are used to determine when the metal block acc. to standard slips away. The device is operated by separate start and stop buttons located on the housing. The setup module can be used to set the speed of movement and the number of test repetitions.

## TEST DESCRIPTION

The base material is placed on the moving platen and clamped. The sample to be tested is affixed to the metal block and placed on the base material so that it rests on the clamp bar with a short side and is detected by the sensor. When the start button is pressed, the platen rotates at a defined speed until the metal block begins to slide, allowing the slip angle to be determined. As soon as the metal block reaches the opposite bar the platen stops and rotates in the opposite direction until the metal block begins to slip again. This process is continued until the preset number of test repetitions has been reached. The digital display reports the slip angle and statistics.

## MODELS

- Static friction tester System FRANK-PTI

Available metal blocks:

- |            |              |         |                         |
|------------|--------------|---------|-------------------------|
| • Block A: | 2.0 x 4.0 in | 750 g   | 14.50 g/cm <sup>2</sup> |
| • Block B: | 3.5 x 4.0 in | 1,260 g | 14.00 g/cm <sup>2</sup> |
| • Block C: | 1.5 x 3.5 in | 500 g   | 14.76 g/cm <sup>2</sup> |
| • Block D: | 2.5 x 2.5 in | 200 g   | 4.96 g/cm <sup>2</sup>  |

## TECHNICAL DATA

### DEVICE/INSTRUMENT

Static friction tester System FRANK-PTI

- Quick clamping due to magnetic clamps
- Metal block detection via integrated sensors
- Bidirectionally rotation
- Adjustable rotation speed in °/sec
- Presetable number of turnings
- Display of the single slip angles as well as statistics
- Compatible with ProbeNet (see pages 84 – 87)

Static friction tester System Noviprofibre (single side)

- Quick clamping
- One-side tilt
- Display of the friction in degrees
- Automatic stop when device detects slipping

### INSTALLATION REQUIREMENTS

Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	No

### APPLICABLE STANDARDS

- DIN 53119-1 | -2
- TAPPI T815, T549