

# Hanatek IPT Inclined Plane Friction Tester

Used in accordance with :  
**ASTM D4918**  
**TAPPI T815**



The Hanatek Inclined Plane Friction Tester is a low cost but extremely accurate instrument for determining the static friction coefficient of flat surfaces.

Designed for use in the packaging industry to measure the static slip of unprinted carton board, printed cartons or plastic films and their coatings, the instrument is suitable for measuring other products including leather, textiles and paper. Results are displayed in both coefficient of friction and slip angle with batch analysis and can be output to the optional Hanatek results printer.

The operation of the device is exceptionally simple, simply cut two samples attach one to the platen and one to the measurement sled. The instrument will raise the platen until the static slip force value is determined. The instrument displays the results in coefficient of friction and slip angle.

For measuring dynamic friction please refer to the Advanced Friction Tester

## At a Glance

- Designed to measure all substrates accurately
- High accuracy, repeatability and resolution
- Measures the static coefficient of friction
- Measure slip angle

## Features

- Multiple tests with statistical analysis
- Simply measures static coefficient of friction
- Accurate slip measurement- readout to 0.1°
- Precision servo motor for repeatable readings
- Auto stop and auto-platen return
- Available with a choice of sleds for relevant ASTM / TAPPI standards
- Results displayed in COF and slip angle
- Results label printer



BAMR (Pty) Ltd, PO Box 23973, Claremont, 7735, South Africa  
 Ph : 27 (0)21 683 2100, Fax : 27 (0)21 674 1485  
 Email : sales@bamr.co.za, Web : www.bamr.co.za

## Applications

Typical applications for the Inclined Plane Friction Tester include:

- Printed cartons
- Flexible packaging
- Printing, Rubber
- Linoleum, Leather, Paper
- Foils, Coatings, Plastics
- Textiles, Composites

## Who measures slip/friction?

Friction testing is used in the packaging industry to measure the slippiness of a product, with the aim of predicting feeding and running speed on an automatic gluing, erecting, filling or packaging line.

## Technical Specifications

Angle	Static	COF
Range:	0° – 52°	0 – 1.3
Resolution:	0.1°	0.002 Static COF
Repeatability:	0.4°	0.01 Static COF
Sled Weight. :	200g	
Power:	AC 110/220V 50Hz/60Hz	
Size:	(h) 180 x (w) 225 x (l) 300 mm	
Net weight:	4kg	
Gross weight:	5kg	

## Standards

- **ASTM D4918** Standard Test Method for coefficient of static friction of uncoated writing and printing paper by use of the inclined plane method
- **TAPPI T815** Coefficient of static friction (slide angle) of packaging and packaging materials (including shipping sack papers, corrugated and solid fiberboard) (inclined plane method)

## Optional Accessories

- Results Printer
- 800g Sled
- 1200g Sled

