Coefﬁcient of Friction Tester
Model 32-25

Slide Angle Friction is a measurement of a sheet like substrate such as paper, corrugated, plastic ﬁlm or paperboard which determines the angle of inclination at which one substrate affixed to a sled will begin to slide/slip against another substrate of a similar material.

During a test, an inclined plane is increased at a rate of 1.5 ± 0.5° per second by an electric motor until the test block begins to slide. The initial movement of the sled is the Slide Angle or Coefﬁcient of Static Friction of the material. When the test block just begins to slide a photo-optical sensor automatically stops the inclined plane and the operator can read the slide angle result.

A variety of factors can affect the Slide Angle measurements including abrasion, coatings, varnishes, printing and most importantly humidity.

APPLICATIONS
Paper, plastic ﬁlm, packaging ﬁlms, paperboard, corrugated and other sheet like materials

SPECIFICATIONS
• 0 to 80° angle
• Conforms to TAPPI T 815, T 548 and ASTM D 202 with optional sliding blocks

FEATURES
• Motor-driven elevation
• Simple, low-cost measurement of static COF
• Photo sensor automatically stops the test after initial sled movement
• Measures only Slide Angle or Coefﬁcient of Static Friction

OTHER
• A horizontal plane method is also available to measure Static and Kinetic Coefﬁcient of Friction
• See models 32-07, 32-71 and 32-91

ORDERING INFORMATION
Catalog number 32-25-00 (COF Inclined Plane Tester)
Electrical: Specify voltage requirements when ordering

Sliding blocks (1 required)  Catalog number
T 503 sliding block for shipping sacks  3.5 in. x 4 in., 1260 g  32-25-02
Sliding block for ﬁberboard  2 in. x 4 in.,  750 g  32-25-03
D 202 sliding block for electrical insulation paper; 2.5 in. x 3 in., 235 g  32-25-04
T 548 sliding block for printed paper  2.5 in. x 2.5 in., 200 g  32-25-05
Sled for COF: 1.5 in. x 3.5 in.; 500 g  32-25-08
T 815 sliding block for ﬁberboard  3.5 in x 4 in., 1300 g  32-25-12

Custom sliding blocks available upon request

PHYSICAL SPECIFICATIONS
W x D x H: 560 x 130 x 280 mm (22 x 5 x 11 in.)
Weight: 7 kg (16 lb)