

COF-01A High Temperature Coefficient of Friction Tester

COF-01A High Temperature Coefficient of Friction Tester is designed for static and kinetic coefficient of friction tests of plastic films, sheets, rubber, paper, PP woven bags, fabric style, metal-plastic composite strips/belts for communication cable, conveyor belts, wood, coatings, brake pads, windshield wipers, shoe materials and tires.



Product Features

High Configuration·High Temperature Test

- Digital P.I.D temperature control technology + aluminum heat conduction plate, to ensure platform temperature is evenly distributed and the set temperature can be quickly reached at the same time
 - SIMUSI springs with a coefficient of elasticity of 2N/cm are used and fully comply with the relevant standard test requirements
 - High-frequency data acquisition system up to 500 data collection per second, to ensure that the most accurate static friction coefficient is collected
 - 15s still time before test, which meets the relevant standard test requirements
 - Embedded high-speed microcomputer control, providing users with comfortable and smooth operating experience
 - Standardized, modularized and serialized design concepts can meet the customers individual needs
 - Conforms to multiple standards of GB, ISO, ASTM and the user could select testing methods as required
 - The test speed is infinitely adjustable and supports any sled mass test
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- The sliding plane and the sled are treated by degaussing and remanence detection which effectively reduce the system errors

Intelligence & Efficiency

- 7-inch HD colorful LCD touch screen, displaying test data and curves in real time
- With a humanized operation interface and intelligent data processing functions, which is convenient to operate and data processing
- Professional software has statistical analysis tools such as confidence interval and oscillation coefficient to help customers better analyze data
- High-precision motor drive, speed and displacement can be accurately controlled
- Built-in micro printer, can realize historical data printing function in real time
- Equipped with standard RS232 interface and software, which is convenient to data display collection and transmission
- Provides professional customization services to meet the individual needs of users in fixtures, software, etc.
- Free software upgrade service lifetime

Applications

Basic Application	Extended Application
Static and kinetic coefficient of friction tests of plastic films, sheets, rubber, paper, PP woven bags, fabric style, metal-plastic composite strips/belts for communication cable, conveyor belts, wood, coatings, brake pads, windshield wipers, shoe materials and tires. With the material smoothness testing, users can control and adjust material quality technical indexes to meet application demands	Performance of cosmetics, eye drops and other daily chemicals

Technical Specifications

Specifications	COF-01A
Capacity Range	5N (Standard) 10N, 30N, 50N, 100N (Optional)

Test Accuracy	0.1%FS
Test Platform Temperature	Room temperature ~ 90°C
Stroke	300 mm
Sled Mass	200g (standard), 500g (optional) (Customization)
Test Speed	100mm/min, 150mm/min 0.05 ~500mm/min (stepless speed)
Specimen Height	0 ~ 30mm
Power Supply	AC 220V 50Hz/120V 60Hz
Instrument Dimension	600mm (L)×330 mm (W)×230 mm (H)
Net Weight	36 kg

Standards

ASTM D 1894, ISO 8295, TAPPI T816, GB 10006

Configuration

Standard Configuration: Instrument, Micro-printer, 200g Sled

Optional Parts: 500g Sled, Non-standard Sled
