

TECHNICAL BROCHURE

## FRICION AND PEEL TESTER (COF)

model COF-21.ng

The coefficient of friction (COF) is a key property for material handling and machinability, directly influencing the performance of paper, paperboard, plastic films, laminates, and other substrates during converting, printing, and packaging processes.

The COF-21.ng was developed to perform static and dynamic coefficient of friction tests with a high level of repeatability and reproducibility. Its intuitive and interactive software, combined with a 10.1" touchscreen display featuring real-time graphical visualization, provides clear and immediate monitoring of test progression and test result evaluation.

### DIFERENCIAIS

- » **Robust construction designed for long-term reliability**, ensuring consistent performance in laboratory and industrial environments.
- » **Equipment and software developed with a strong focus on the application**, ensuring maximum accuracy with a user-friendly and intuitive interface.
- » **10.1" touchscreen display** providing clear and immediate visualization of results.
- » **Magnetic sample clamping system** ensures greater agility and practicality during test setup.
- » **USB-C port and built-in thermal printer** allow immediate and convenient export or printing of test results.
- » **Regmed equipment**: a global reference for over 65 years in laboratory solutions for physical testing of pulp, paper, and packaging materials.



### MAIN APPLICATIONS

- » Control of material machinability, slip behavior, and performance in automated packaging and converting lines
- » Verification of slip characteristics between surfaces of plastic films, laminates, papers, and paperboards
- » Evaluation of the stability and slipping tendency of stacked packages
- » Development and comparison of materials, coatings, and surface treatments
- » Adhesion and peel force testing

### TECHNICAL STANDARDS

- » **TAPPI T-549** – for paper testing
- » **ASTM D 4917** – for paper testing
- » **ASTM D 1894** – for plastic film testing
- » **ISO 8295** – for plastic film testing
- » **DIN 53375** – for plastic film testing
- » **TAPPI T-816** – for board & corrugated paperboard testing
- » **ASTM D 3247** – For board & corrugated paperboard testing
- » **ASTM D 3330/A** – 90° Peel Fixture needed
- » **ASTM D 3330/F** – 180° Peel Fixture needed

*\* Due to continuous development, this equipment is subject to change without prior notice.*

## DIMENSIONS



## SPECIFICATIONS

Friction force	1 to 9999 gf
Resolution	0.1 gf
Selectable test units	gf / kgf / lbf / N / mN
Selectable test speeds	10 to 500 mm/min
Test distance	20 to 150 mm
Power supply	220 VAC, 50/60 Hz, single or two-phase, 200W
Weight	20 kg

Features a USB-C serial output for transferring results to a computer/notebook, built-in thermal printer, memory storage for the last 500 test reports, and search function by date, user, or product.

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## ADDITIONAL IMAGES



### 10.1" touchscreen display

*Intuitive interface that simplifies operation, speeds up test setup, and provides clear and immediate visualization of results.*



### Two sled options

*200g sled for paper and plastic film testing, or 1360g sled for paperboard and corrugated board testing – one option included.*



### Cutting plates + scoring device

*Supplied with 2 templates for sample preparation, sizes (140 x 310)mm and (63 x 250)mm, as well as a scoring device for paperboard samples.*



### Built-in thermal printer

*Allows immediate printing of results, facilitating record keeping, traceability, and laboratory documentation.*

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**+ ACCESSORIES & FIXTURES** – *not included in the equipment's basic configuration / quoted separately*



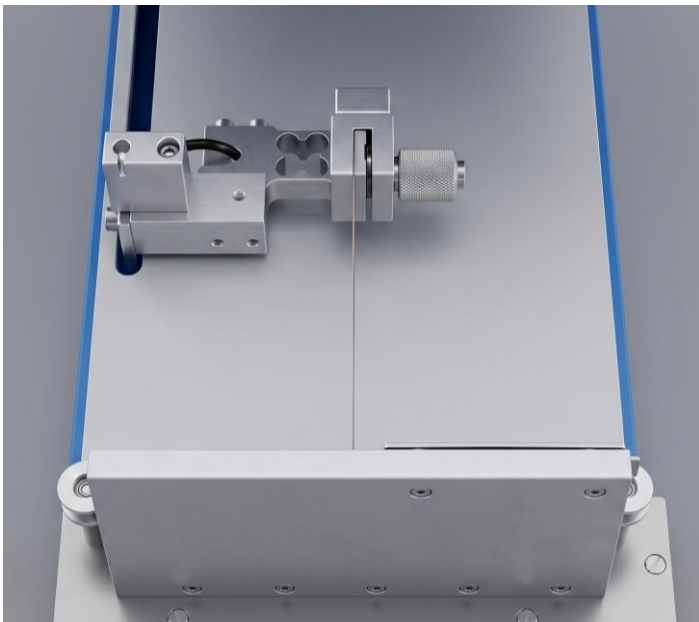
**RSCOF-21 Seal Strength Fixture**

*Designed for seal strength testing with forces up to 10 kgf / 100 N.*



**180° Peel Fixture**

*Designed for adhesion testing of labels and adhesive tapes with 180° peel angle removal. Supplied with FINAT Conditioning Roller.*



**90° Peel Fixture**

*Designed for adhesion testing of labels and adhesive tapes with 90° peel angle removal. Supplied with FINAT Conditioning Roller.*

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