TECHNICAL BROCHURE

# FRICTION 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.

## KEY FEATURES

- **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.*

www.regmed.com.br · regmed@regmed.com.br · +55 (11) 3601-5700
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## 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 multilingual software (English, Spanish, and Portuguese), USB-C serial output for data transfer, built-in thermal printer, memory storage for the last 500 test reports, and search function by date, user, or product.*

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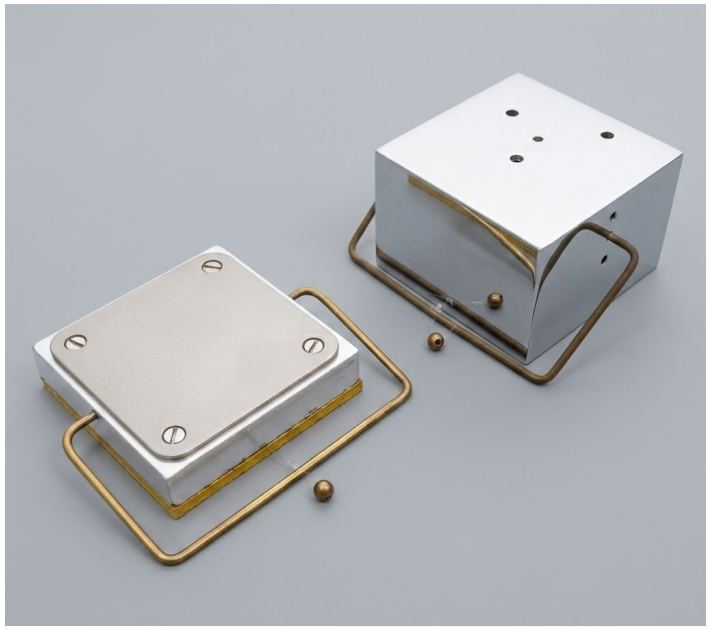
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## ADDITIONAL IMAGES




### 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*



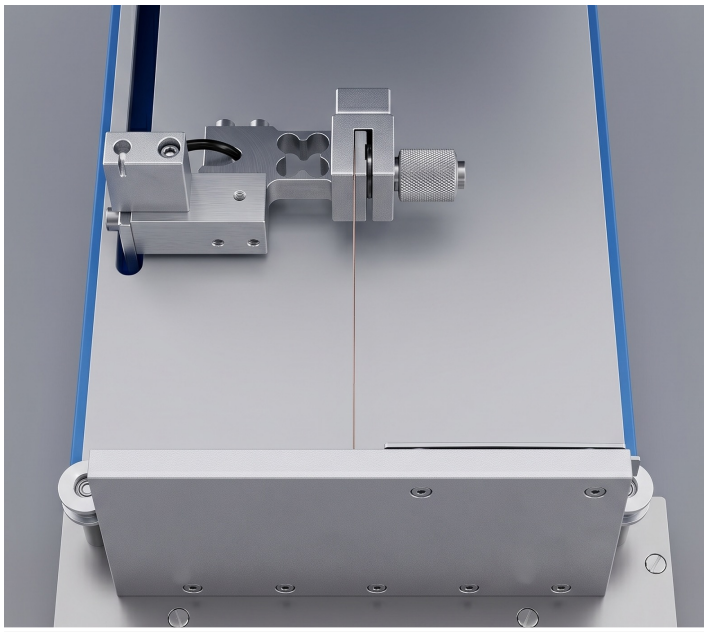
### RSCOF-21 Seal Strength Fixture

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



### 180º Peel Fixture

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



### 90º Peel Fixture

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

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