



TORONTECH



## GRANULE FRIABILITY TESTER TORONFRI™ G1

Granule Friability Tester ToronFRI™ G1 is designed to meet Ph. Eur. standards, offering precise friability testing for tablets, granules, and pellets. It features programmable oscillation (0–400/min), a 37° oscillation angle, and a secure magnetic-interlock lid. Available in 230V and 110V models with interchangeable glass sample containers for efficient operation.

## APPLICATIONS

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The Torontech ToronFRI™ G1 is a specialized instrument designed to evaluate the mechanical strength and friability of hard tablets, granules, and pellets in accordance with Ph. Eur. standards. Its primary application is to quantify a product's resistance to abrasion and fracture, which is a critical quality attribute that predicts how well it will withstand the physical stresses of manufacturing, coating, packaging, and transportation.

This specialized friability testing is essential for ensuring product integrity in:

- **Pharmaceuticals:** For the quality control of granulated intermediates prior to tableting and for testing the integrity of pellets used in controlled-release capsules. This ensures that the physical form, and therefore the dosage and release profile, is maintained throughout the manufacturing and handling process.
- **Nutraceuticals & Dietary Supplements:** To verify the robustness of hard-pressed vitamin tablets and granulated supplement powders, ensuring they do not generate excessive dust or break apart in the final packaging, which is crucial for product quality and consumer acceptance.
- **Agrochemicals:** For testing the physical integrity of granulated fertilizers, pesticides, and herbicides. This is vital to prevent the formation of dust during transport and application, which ensures uniform field distribution and minimizes operator exposure risks.
- **Catalyst Manufacturing:** To assess the mechanical strength of catalyst pellets and extrudates. Their resistance to attrition is critical for maintaining performance and preventing blockages in industrial chemical reactors, where physical breakdown can lead to significant operational inefficiencies.

## Optional accessories

Granule Friability Tester ToronFRI-G1

### Container

Part no. 0404A00001

Granule Friability Tester ToronFRI-G1

### Angle protractor

Part no. 0404A00002

## FEATURES

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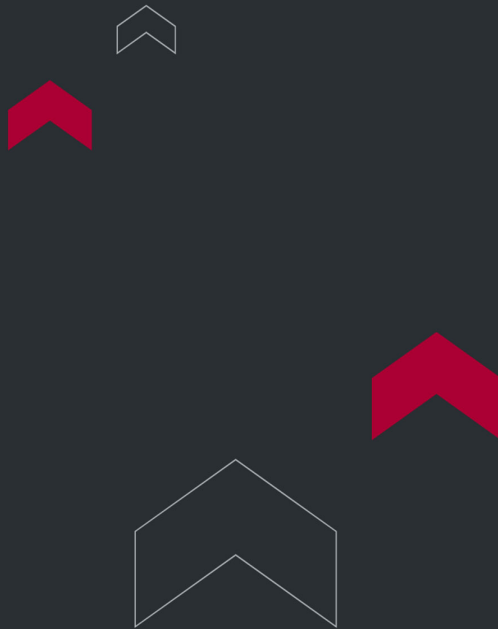
1. Conforms to Ph. Eur. Standards
2. Enables accurate friability measurement for hard tablets, granules, and pellets.
3. Features bi-directional horizontal shaking and oscillation at  $37 \pm 2^{\circ}\text{C}$ , meeting Ph. Eur. guidelines.
4. Includes a durable glass container.
5. Equipped with an acrylic lid featuring a magnetic interlock for secure operation.
6. Supports interchangeable glass containers for efficient sample processing.
7. Optional oscillation frequency verification certificate available.

8. Ideal for friability of hard tablets, granules and pellets

**TECHNICAL SPECIFICATIONS**

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| Model             | EGF-1                                       |                                |
|-------------------|---------------------------------------------|--------------------------------|
| Product Code      | 230 Volts                                   | 110 Volts                      |
|                   | M.S.: 0420400<br>S.S.: 0440400              | M.S.: 0410400<br>S.S.: 0430400 |
| Oscillation Angle | 37°                                         |                                |
| Oscillation Rate  | Programmable from 0 to 400 oscillations/min |                                |
| Time              | 1 to 9999 sec                               |                                |



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