

EXPERIENCE HIGH THROUGHPUT CRYOGENIC GRINDING FOR PLASTICS AND POLYMERS



6875D
FREEZER/MILL®
DUAL CAPACITY MILL

The Freezer/Mill® is capable of grinding plastics and polymers into powder, while avoiding thermal degradation.

These cryogenic laboratory mills cool samples in a grinding vial to cryogenic temperatures then pulverizes them by magnetically shuttling a steel impactor back and forth against two stationary end plugs. Since the vial is closed, the integrity of its contents is maintained, hazardous or critical samples are easily controlled, cleanup is simplified and cross-sample contamination is eliminated.



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FREEZER/MILL®

Vials are kept cool by liquid nitrogen throughout the grinding cycle which keeps the sample at cryogenic temperatures preserving its key aspects.

A touch screen control panel allows up to 10 user-defined grinding programs for simple and fast recall.

A choice of vial sizes are available to grind different sample sizes or to grind multiple samples simultaneously.

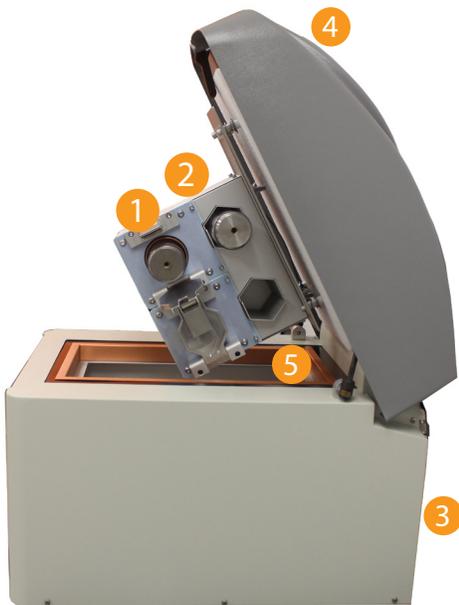


6775
FREEZER/MILL®

6875D Freezer/Mill® - Accommodates 0.1 - 100 grams of sample per chamber. Dual grinding and cooling chambers allow users to grind and pre-cool samples simultaneously.

6875 Freezer/Mill® - Accommodates 0.1 - 100 grams of sample.

6775 Freezer/Mill® - Accommodates 0.1 - 5 grams of sample. Ideal tool for smaller labs.



6875D FREEZER/MILL®

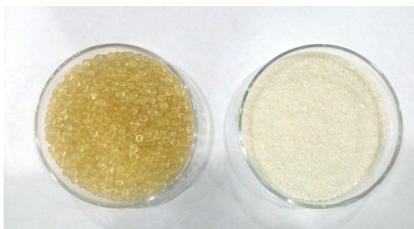
1. Dual pre-cooling chambers keeps up to 200 grams* of samples at the appropriate temperature while other samples are grinding.
2. Comes with auto-fill attachment for liquid nitrogen but also has the ability for manual fill.
3. Control panel with touch screen interface stores up to 10 grinding protocols.
4. Safety features include LN sensor and lid interlock. The grinding process will stop if the lid is opened while the mill is running.

**100 grams per chamber*

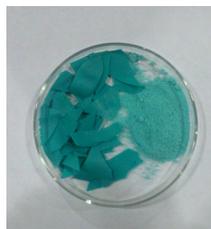
GRINDING POLYMERS FOR QUALITATIVE AND QUANTITATIVE ANALYSIS

Compact synthetics (pellets, webbing fabric, textiles) and polymer yarns, fleece material and filaments were successfully ground in the Freezer/Mill®. Cryogenic grinding was required for accurate qualitative and quantitative analysis of additives such as antioxidants using HPLC and INOC-Test. The Freezer/Mill® efficiently reduced these samples to particle sizes of less than 500 µm without thermal degradation. **To download this application notes PDF visit www.spexsampleprep.com/application-notes.**

BEFORE AND AFTER SAMPLES



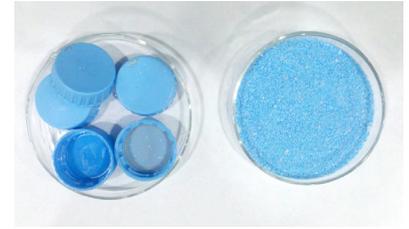
Polymer pellets



Latex gloves



Plastic toy



Plastic bottle caps

*Contact us to learn how you can grind these samples in minutes.

**Grinding plastic & polymers to a powder has never been easier!
Contact us to find out how you can get a free demo of the Freezer/Mill®**

