

6770/6870

Freezer/Mill®

Grinding and
Pulverizing



Tissue
Homogenization
and Cell Lysis



BECAUSE BREAKING UP IS HARD TO DO...

SPEX SamplePrep's family of Freezer/Mills® are cryogenic laboratory mills used to chill samples in liquid nitrogen and pulverize them with a magnetically driven impactor. Our Freezer/Mills® are recognized as the world's most effective laboratory mills.



- ∴ DNA/RNA extraction—Bone, teeth, hair, skeletal material—recent or ancient, plant and animal tissues, leaves, etc. Sample maintains low level temperatures due to continuous immersion in liquid nitrogen.
- ∴ Pharmaceutical Analysis/Drug Testing—Heat sensitive metabolites, isomers and complex molecules retain their composition as they are not degraded by heat or pressure.
- ∴ Volatile Compounds—Ensures retention of volatile components.
- ∴ Medical Research—Pulverizing fresh sterilized bone to produce bone cement, grind implant materials for toxicity testing, tissue homogenization.
- ∴ RoHS/WEEE—Embrittles sample to improve breaking properties, avoid frictional heat, while ensuring volatile fractions are not adversely affected.
- ∴ Plastics/Polymers—Cryogenic temperature allows sample preparation for difficult to grind plastics and polymers.

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- Grinding vials and accessories sold separately.



Accuracy

- ∴ Maintain Sample Temperature—Sample NEVER leaves the enclosed liquid nitrogen bath.
- ∴ Vial reaches approximately 100°C in one minute, -196°C in 4 ½ minutes.
- ∴ Minimizes Contamination - vials can be cleaned or disposed of.

Versatility

- ∴ Touch screen interface for ease of use.
- ∴ Removable control panel.
- ∴ Can store up to 10 grinding protocols.
- ∴ Grind samples from 0.1- 50 grams.
- ∴ Model 6870 accepts one large vial or four small vials.
- ∴ Model 6770 accepts one small vial or one microvial set.

Durability

- ∴ Maintenance-free design, only 1 moving part.
- ∴ Backed by SPEX SamplePrep's 50+ years of experience.

Application Notes available

- ∴ Grinding Polymers for Qualitative and Quantitative Analysis (SP007).
- ∴ Preparation of Domestic Waste for Elemental Analysis (SP002).
- ∴ Cryogenic Grinding of Bone (HT001).

For more application notes, please visit:
www.spexsampleprep.com/appnotes



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