



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. The SPEX SamplePrep 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.

6770/6870 Freezer/Mill®



- Grinding vials and accessories sold separately.



Accuracy

- :: Maintain Sample Temperature—Sample NEVER leaves the enclosed liquid nitrogen bath.
- :: Vial reaches -100°C in one minute, -196°C in 4 ½ minutes.
- :: Eliminate 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

SPEX SamplePrep®

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Your Science is Our Passion.™

