



C3 PROZESS- UND  
ANALYSENTECHNIK GmbH

PRODUKTINFORMATION

# SPEX SamplePrep 6770 Freezer/Mill®

6770/6870

Freezer/Mill®

Grinding and  
Pulverizing 

Tissue  
Homogenization  
& Cell Lysis 

BECAUSE BREAKING UP IS HARD TO DO...



SPEX SamplePrep's Freezer/Mills® are cryogenic laboratory mills that chill samples in liquid nitrogen then pulverizes them with a magnetically driven impactor. They are recognized as the world's most effective laboratory mills.

### TYPICAL SAMPLES

Plant and animal tissue, plastic and polymers, yeast, pharmaceuticals, food products, electronic components, textiles, hair & bones.

### FEATURES AND BENEFITS

- • Sample maintains low level temperatures due to continuous immersion in liquid nitrogen.
- • Heat sensitive metabolites, isomers and complex molecules retain their composition as they are not degraded by heat or pressure.
- • Vial reaches approximately -100°C in one minute, -196°C in 4 ½ minutes.
- • Touch-screen interface for easy usage
- • Maintenance-free design with only one moving part.
- • Backed by SPEX SamplePrep's 60 years of experience.



**WATCH OUR VIDEOS!**

Scan this QR code with your smartphone or visit [www.youtube.com/sampleprep](http://www.youtube.com/sampleprep).

**SPEX® SamplePrep** 

[www.spexsampleprep.com/freezermill](http://www.spexsampleprep.com/freezermill)



6770

## Freezer/Mill®

The 6770 Freezer/Mill® is a small cryogenic grinder with a self-contained liquid nitrogen tub and insulated case. Grinds samples from 0.1 to 5.0 grams using one standard vial or one microvial set.

6870

## Freezer/Mill®

The 6870 Freezer/Mill® is a larger cryogenic grinder with a self-contained liquid nitrogen tub and insulated case. Optional auto-fill system is available to automatically fill the bath with liquid nitrogen. It grinds samples from 0.1 to 100 grams using one large vial, four small vials or four microvial sets.

### FEATURES AVAILABLE IN BOTH UNITS

1. Safety features include LN sensor and lid interlock. If lid is opened during the grinding process grinding will stop.
2. Closed grinding vial with impactor prevents sample cross-contamination. Grinding vials made of alternative materials are also available.
3. Liquid nitrogen is required for operation. The sample's temperature is maintained because it NEVER leaves the enclosed liquid nitrogen bath.
4. Includes removable control panel with touch screen interface for ease of use. Stores up to 10 grinding protocols.



### APPLICATION NOTES AVAILABLE

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

To access application notes for the Freezer/Mill, please visit [www.spexsampleprep.com/appnotes](http://www.spexsampleprep.com/appnotes)

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