



GROUP OF COMPANIES

ORDERING INFORMATION

WEB PAGE INFORMATION

SAMPLE PREP PRODUCTS

PROTOCOL ANALYTICAL, LLC

SPEX CERTIPREP® UK



Ordering Information

■ **General Conditions** – Payment terms are Net 30 days to rated organizations or by credit card. Orders are sent ExWorks Metuchen, New Jersey, and are shipped in accordance with IATA or DOT regulations. In order to do so, SPEX CertiPrep® must frequently use alternatives to the fastest or most economical modes of shipment. All freight charges are prepaid and added to the invoice unless otherwise specified by your order.

■ **Return and/or Exchange** – Contact the CRM Sales Department for a Return Authorization Number and instructions *before* shipping. Unauthorized returns will be refused. Transportation is the responsibility of the customer; all materials must be packed, marked, labeled, and shipped in accordance with regulations governing transportation of hazardous materials. **Credit for returned merchandise will be issued only if goods are unopened, resalable, and received within 30 days of the original invoice date. Returned items are subject to a 25% restocking charge.**

■ **Limited Liability** – Purchaser's sole and exclusive remedy for damages and Seller's sole and exclusive liability for damages from any cause whatsoever, including alleged negligence, is limited to the refund of the purchase price of the product or replacement of the product at Seller's election. In no event shall seller be liable for direct, indirect, incidental or consequential damages, including lost profits.

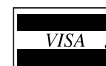
■ **Export Orders** – SPEX CertiPrep maintains authorized dealers in many countries around the world. Please contact the CRM Sales Department for further details *prior* to placing order.

■ **Precautions** – SPEX CertiPrep products are not for any cosmetic, drug or household application. Our acceptance of a purchase order is with the assumption that products will be used only by qualified individuals who are trained in appropriate procedures. On our clients must rest the entire burden of safe storage, handling, and application of all products ordered from this catalog. We assume requisitioners to be competent, safety-conscious professionals.

■ Send Orders to:

SPEX CertiPrep
Attn: CRM Sales Department
203 Norcross Avenue
Metuchen, New Jersey 08840-1253 USA

FAX: 732-603-9647
e-mail: CRMSales@spexcsp.com
web site: www.spexcsp.com



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Sample Prep Products

Just as calibration standards can limit the success of any analysis, data can be useless if the sample being analyzed is not representative of the whole or is badly prepared. SPEX CertiPrep® sample preparation expertise and products help analysts achieve accurate and consistent results by assuring reliable, reproducible samples. The SPEX CertiPrep *Handbook of Sample Preparation and Handling* is well known as a primary source of helpful advice for the preparation of samples. Among the topics covered are grinding and pelletizing, fusion fluxing, and controlling contamination. Sample preparation products include mills, presses, dies, XRF liquid cells, XRF window films, automated fusion fluxers, and a selection of sample binders and grinding aids to simplify the sample preparation process. These products are used throughout the world in industrial, academic, research and governmental laboratories. Their uses cover many different fields of spectroscopy (XRF, XRD, ICP, IC-PMS, AA, DCP, IR, UV-VIS) and their applications range from genetic research to forensics to geology to medicine to immuno-assay to agriculture. Copies of the *Handbook* may be obtained by contacting the Sample Preparation Division at 732-549-7144 ext. 465 or 1-800-LAB-SPEX. The complete text is also available on our company web site at <http://www.spexcsp.com>.

SPEX CertiPrep manufactures the following products along with a complement of grinding containers and milling accessories.

- **Geno/Grinder™** – A new laboratory mill specifically designed for vigorous up-and-down shaking of deep-well titer plates. It is typically used to prepare tissue for extractions of nucleic acid, protein, enzymes, yeasts, and other constituents by shaking the tissue, grinding media, and, in certain applications, a buffering agent together in each well of the titer plate. The operator can precisely adjust the stroke rate of the sample clamp mechanism anywhere from 500 to 1700 up-and-down cycles per minute. The Geno/Grinder is specifically designed for shaking titer plates and has many advantages over conventional mills and paint shakers “adapted” for this purpose.
- **Freezer/Mill®** – Cryogenic laboratory mills that chill samples to liquid nitrogen temperatures and pulverize them by magnetically driven impaction. Both large capacity (model 6850) and small capacity (model 6750) Freezer/Mills® are used for samples considered “ungrindable” by other techniques. These samples include (but not limited to) rubber, plant and animal material, polymers and textiles.
- **Mixer/Mill®** – Single and dual clamp shaker mills (high-energy ball mills) capable of reducing solids to analytical fineness, blending a wide range of powders, and mechanical alloying. Models available include the 8000M, 8000D, and 5100 Mixer/Mills.
- **Shatterbox®** – Swing mills (puck-and-ring mills) capable of grinding 100g samples with resultant particle size well below 200 mesh or as fine as 10 microns. Models available include the 8500 and 8515 Shatterbox.
- **X-Press®** – Automated hydraulic laboratory presses for preparation of sample pellets or flat-surfaced discs. Model 3630 provides convenient alternatives to manual pressing. It is capable of pressing sample discs requiring 10-35 tons of pressure, and accepts pellet dies of varying sizes.
- **XRF Accessories** – SPEC-Cap® for reinforcing pellets; X-Cells for liquid and powder XRF samples; thin films for XRF cell windows; and Prep-Aid® sample binders and grinding aids.
- **Fusion Flux Equipment** – Automated fusion fluxing devices are available, which are capable of simultaneously preparing 3 or 6 samples, either as glass discs for XRF or as solutions for AA/ICP-DCP analysis.

Take a Closer Look...

The SPEX CertiPrep Handbook of Sample Preparation and Handling is well-known as a primary source of helpful advice for the preparation of samples. Copies of the Handbook may be obtained by contacting the Sample Preparation Division at 732-549-7144 ext. 465 or 1-800-LAB-SPEX.

Protocol Analytical, LLC

SPEX CertiPrep® has been the leading manufacturer of Inorganic Certified Reference Materials for 50 years. You have come to recognize us as the manufacturer of the highest quality, most dependable certified reference materials available. Protocol Analytical, now a member of the SPEX CertiPrep Group, has been manufacturing Organic Certified Reference Materials for 15 years. Today we are working together to provide you with top quality Organic Reference Materials for GC, GC-MS, and HPLC, along with the fast response, great customer service, and top notch technical support you have come to expect from us. Now you can order all your inorganic and organic Certified Reference Materials from one source.

The Protocol Analytical product line includes:

- **EPA methods 500 through 8000 single- and multi-element standards**
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SPEX CertiPrep® Ltd.

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From our UK Headquarters we are responsible for the sale and marketing of the SPEX CertiPrep CRM range throughout Europe. This is supported by local distributors in most European countries. In addition we offer our Glen Spectra Reference Materials (GSRM) range of Solid Reference Materials to laboratories worldwide. Through our catalogs we aim to provide a single comprehensive source of Reference Materials covering most of the requirements of analytical chemists involved in inorganic analysis.

The GSRM Solid Reference Material Catalog contains a wide range of over 8000 Certified Reference Materials sourced from over 100 producers across the globe. This choice, combined with our staff's experience and expertise in the relevant analytical techniques, puts SPEX CertiPrep Ltd. in a unique position to give independent and unbiased technical advice to customers on available and alternative reference materials.

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