

SpectroCertified® XRF Sample Cups

Chemplex Industries, Inc. maintains a design engineering department together with a contemporary equipped machine shop facility. Chemplex® products are manufactured “in-house” starting from the initial product conception, design, prototype, testing, and evaluation stages to finished inventoried products. In many instances, the machinery to make a product is not available necessitating the “in house” design and custom fabrication of the actual production equipment.

The design of sample cups begins with an innovative idea for a method of containing and handling liquid and powdered sample substances for x-ray analysis. Many Chemplex® XRF Sample Cup designs and applications are classified as innovatively unique and have been awarded intellectual property status with the USPTO.

With a battery of injection molding machines and adjunct equipment in its manufacturing section, sample cups are: manufactured on a daily basis; subject to quality control at the production stage; packaged and labeled to avoid contamination; and inventoried under a protective environment to maintain their original quality and to assure prompt delivery.

SpectroCertified® XRF Sample Cup Quality Starts with a Special Formulated Polyethylene

Chemplex® XRF Sample Cups are injection molded from a proprietary high-density polyethylene specially formulated for this application. The material is characterized with:

- Compliance with RoHS Directive
- Absence of “whitening” agents that may potentially influence x-ray data
- Lubricity to facilitate the smooth and firm attachment of thin-film sample support windows
- Physical characteristics for performance and resistance to thermal and irradiation exposure
- Chemical resistance from contact with incalculable sample material substances
- Low trace element



Typical Characteristics of Chemplex® XRF Sample Cups

Typical Trace Element Impurities, PPM	Melting Point, °C (°F)	Softening Point, °C (°F)
Ca, Mg, Ti, Al, P, Zn	130 (266)	123 (253)

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COMBINATION SERIES: 1000 & 1850

SpectroSulfur® Analyzer XRF Sample Cups



For convenience of locating sample cups used with sulfur or chlorine analyzers, SpectroSulfur® analyzer sample cups are also combined into a separate series. The original catalog numbers of the sample cups remained unchanged as well as their listing under their respective series.

TrimLess® Thin-Film Window Attachments: Cat. No: 1080, 1083 & 1085



As the name implies, thin-film window attachment requires no trimming and contending with annoying static cling. The provided collar secures the thin-film in position with complete envelopment.

Two versions are offered:

Cat. No: **1080** is open on both ends for preparing sample cups in advance with thin-film windows and allow samples to be conveniently introduced from the top.

Cat. No: **1083** and **1085** are closed on one end and also integrate an external overflow reservoir and ThermoPlastic® venting option. The two sample cups are identical with the exception of their heights. The 1083 is approximately 3 mm less in height for accommodation by sulfur analyzers designed with a sample cup holder lid that requires a smaller sample cup height.

Low-Profile SpectroSulfur® Analyzer XRF Sample Cups Catalog Number: 1850

The 1850 sulfur analyzer sample cups are used with XOS Sindie® sulfur analyzers and other sulfur analyzer instruments requiring a specially configured low-profile design. The 1850 SpectroSulfur® analyzer sample cup is open on one end and integrates an external overflow reservoir with ThermoPlastic® user venting option. Thin-film windows are firmly attached by means of a uniquely designed "bead-to-indent" geometry incorporated in the "Snap-On Ring" and Cell neck.

See Series 1000 and 1850 for More Details Specifications and Ordering Information

Catalog Number	Description	Outside Dia.	MAX. OD	Height	Aperture	Vol. cc	Sets
1080	SpectroSulfur® Analyzer Sample Cups	1.69" (42.9mm)	1.84" (46.7 mm)	0.80" (20.3mm)	1.43" (36.3mm)	15	100
1083		1.69" (42.9mm)	1.84" (46.7 mm)	0.73" (18.5mm)	1.43" (36.3mm)	12	100
1085		1.69" (42.9mm)	1.84" (46.7 mm)	0.73" (18.5mm)	1.43" (36.3mm)	12	100