

## 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



#### What's New

- [Exhibitions](#)
- [Clinics and Workshops](#)
- [Suggested Reading Material](#)
- [Reference Standard Sources](#)
- [Data Bases](#)
- [XRF Instrument Manufacturer's Showcase](#)

#### XRF Sample Cups and Accessories

##### Technical Data

- [How to Select a Sample Cup](#)
- [Quick Reference Chart](#)
- [Accessories for Sample Cups](#)

##### Grinding Machines and Accessories

##### Briquetting Presses and Accessories

##### Grinding/Briquetting Additives

##### Fusion Machines and Accessories

##### Petrochemical Oil Standards

##### PE and PVC Polymer Compliance Standards

##### Thin-Film Sample Supports

##### Microporous Film

##### RoHS European Council Directive 2002/95/EC

##### Technical Reprints

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- Chemical resistance from contact with incalculable sample material substances
- Low trace element impurities

#### 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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