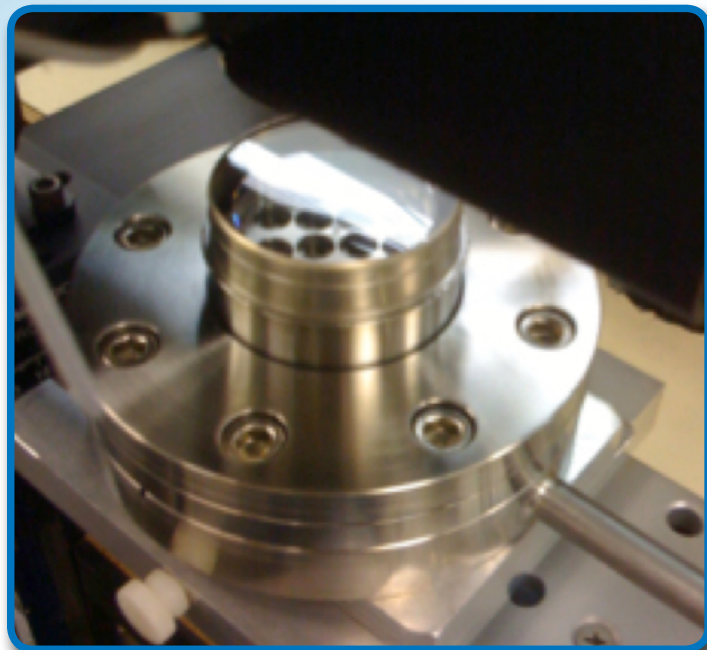
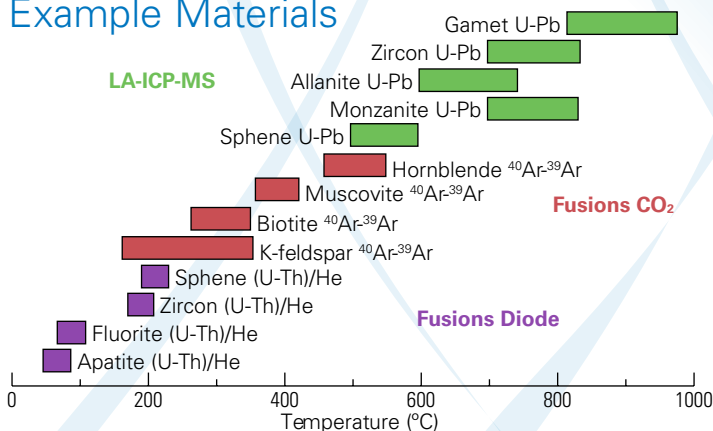


High Vacuum Sample Chambers for Noble Gas Applications

Example Materials



About High Vacuum Sample Chambers

Teledyne CETAC Technologies is the leading provider of laser ablation and fusion systems for noble gas mass spectrometry, including sample chambers, based on decades of experience. Each chamber configuration is rated for 1×10^{-11} Torr and is designed for minimal gas volume, high capacity and best sample imaging.

UV And IR Wavelength Viewports

Chambers are available for in-situ analysis using Teledyne CETAC Technologies' UV laser ablation systems and for stepped heating and fusing of minerals using our Fusions CO₂ and Fusions Diode infrared laser systems. Chambers for the CO₂ laser system include additional pumping on the viewport to eliminate trapped air and reduce gas blanks.

Teledyne CETAC Technologies laser ablation systems and cells incorporate long working distances to provide for prolonged single point ablations, line or area scans while keeping the focal point of the laser sufficiently beneath the viewport to prevent damage from excessive energy density through the window material or from ejecta deposition.

Key Features

- Stainless steel construction
- Unique sample pedestal minimizes gas volume
- Engineered to eliminate trapped air
- Optimal viewing quality & color
- Protected viewport
- Transmitted Light option available (UV Chambers)

Viewport Materials:

- ZnS (CO₂ Chambers)
- Sapphire (Diode Chambers)
- DUV Grade Sapphire (UV Chambers)

Additional Options:

- Pumping kit available for CO₂ chambers
- Each chamber includes a starter planchet, coverslip kit and a flexible coupling for connection to the MS extraction line



CETAC Technologies and Photon Machines joined forces back in June 2010 with a view to advance laser ablation technology for elemental analysis, and to offer a full range of products globally. This collaboration brought together the experience in Photon Machines' design team with the sample introduction expertise of CETAC. This partnership has taken the next natural step and both companies have merged under the Teledyne Instruments banner.

Teledyne Photon Machines, a brand of Teledyne CETAC Technologies, provides laser ablation systems including CO₂ and diode lasers, 213 nm solid state Nd:YAG, 193 excimer laser systems and femtosecond laser systems. In addition, the company provides accessories to enhance the capabilities of laser ablation systems.



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