

Custom glass manufacturing

Applications

- ✓ Electronic glasses
- ✓ Conductive glasses
- ✓ Field rings for TOF instruments
- ✓ High voltage dividers
- ✓ Fiber optics
- ✓ Conventional optics

Features

- ✓ High purity
- ✓ Small volume melts
- ✓ Platinum crucibles
- ✓ Physical and optical properties verification
- ✓ Compositional analysis and verification
- ✓ Formatting, including rod, tube, fiber, and boules.
- ✓ Formulation design capability
- ✓ Wafer finishing capability up to 150 mm



PHOTONIS is the world leader in electrooptics technology. Maintaining leadership in this field requires extensive capability and expertise. This expertise is now available to help you overcome your unique glass problems. PHOTONIS facility, located in Sturbridge MA, offers a fully functional glass plant facility designed for small, high quality batch melts. Batch melts are performed in platinum crucibles to assure high purity.

Glass melts can be poured into specially designed carbon molds in order to produce specific shapes and sizes. Further glass forming can be accomplished through glass draw or extrusion operations. Precision dimensions can be obtained through subsequent grinding and polishing operations.

Glass types

- Lead Glass
- Borosilicates
- Black (EMA) Glass
- Flux Glass
- Etchable Core Glass
- Custom Formulations



Small Batch Glass Making
in Platinum Crucibles



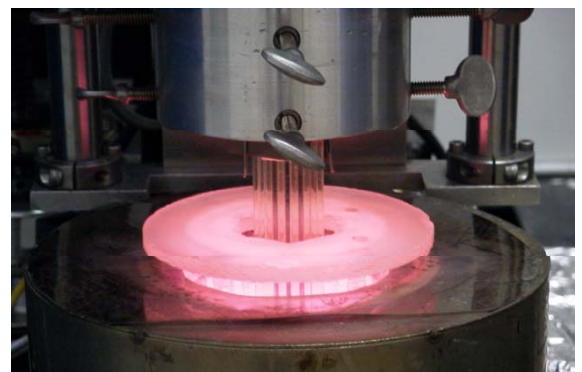
Optical Quality Grinding and
Polishing

Material analysis

PHOTONIS offers a full complement of analytical services. In-house capabilities include X-Ray Florescence (XRF), Energy Dispersive X-ray analysis (EDX), Residual Gas Analysis (RGA), Fourier Transform Infrared Analysis (FTIR), and compositional verification.

Differential Thermal Gravimetric Analysis (DTA and TGA), Dilatometry (expansion measurements), polarimetry (stress measurements) are also available.

PHOTONIS also offers Optical and Scanning Electron microscopy for mechanical verification and transmission and UV/Vis for verification of optical properties.



Fiber Draw Capability