



High Integrity Glass | Metal Seals

Metallization Characteristics

- + Metallization Structure: multi-layer gradient metallization
- + Material Compatibility: usable with most noble metal solders and brazing materials

Component-Level Metallized Optical Elements

- + Material: sapphire - highest quality optical grade, crystal orientation to meet customer specification
- + Configuration: edge metallized rods, windows, wedges and spherical lenses
- + Dimensions: diameter/diagonal < 2mm to 25mm
- + Coatings: single and multi-layer coatings available to meet customer specifications

Sub-assembly-Level Products

- + Mounted Optical Elements: Lenses or windows brazed into rings for customer processing
- + Custom Housings: windows, wedges or lenses supplied in customer-designed housings
- + Hermetic Cells: complete assemblies sealed, backfilled and leak checked
- + Devices: Finished devices incorporating glass/metal seals built to ISO standards/FDA requirements

Performance Characteristics

- + Intimate adhesion: metallization will not separate or delaminate, even under extreme thermal shock
- + Autoclavable to > 1000 cycles
- + Leak Tested to < 10E-9 atm cc/sec

