eurolabo
Presses & Solutions pour l'analyse infrarouge

Chemically Resistant Diamond ATR Puck

With increased robustness to chemical and physical stress (i.e. due to the samples or materials being tested) our Chemically Resistant Diamond puck for Quest™ is a higher performance upgrade for the regular diamond sampling plates.



Key Features

- **Brazed diamond-metal bonding**
  More resistant to chemical attack than adhesives or mechanical seals, resulting in greater longevity and lower risk of leakage into the optics unit.
- **High grade stainless-steel puck**
  The 316L grade of stainless-steel is used in demanding process analytical settings and offers improved resistance to chemical attack.
- **Recessed sample well and spillover channel**
  These features help to contain chemically aggressive samples and prevent them spilling over onto less protected parts of the spectrometer.
- **Extended range diamond crystal**
  Covers the full range from mid-to-far infrared, allowing multi-modal analysis of the samples.

Specifications

	Diamond *(Extended Range)*
Usable spectral range	4,000-10 cm^{-1} [1]
Refractive index	2.40
Depth of penetration at 1000 cm^{-1}	2.0 µm
Puck material	Stainless steel 316L
Sealing method	Metal-diamond brazing
Compatible with	Specac Quest

[1] diamond has absorbances in the region of 2,500-1,667 cm^{-1} due to lattice vibrations.

Ordering

Chemically resistant diamond puck	**GS10845**