



ÅNGSTROMPORE POROUS MONOLITHS

Ångstrompore transparent porous glass is a versatile, high purity silica material with a fully interconnected and uniform porosity. It is mechanically strong and hard, as well as, hydrophilic by standard processing with the potential for custom surface modifications. The pore size process range can be controlled from 25 Å to 200 Å in diameter. Since Ångstrompore is formed using a casting process, very accurate shapes such as disks, rods, and lenses can be produced with a high dimensional tolerance to meet your specific design requirements.

Because of the inherent capillary action of the pore structures, Ångstrompore is an excellent noncontaminating getter for certain impurities. Its high purity (>99.99%) makes it valuable as a filter or separator of compounds with the added benefit of a rigid structure and capability to withstand both very low and high temperature extremes.

The ability to impregnate the pores with compounds that can react to environmental conditions, such as humidity or toxic gases, make the substrate a perfect host for sensor applications that require optical transmissive properties.

We offer a range of standard sizes and pore structures but understand that many applications require custom designs and microstructures. Our Material Science Engineers are prepared to work with you in a proprietary manner to develop a product that meets your requirements. We have experience manufacturing hundreds of thousands of units for production applications and can produce them in very cost effective manner.

Below are some common applications for the Ångstrompore glass:

- Matrix for photoactive dyes
- Biological substrates and diagnostics
- Chemical biological and optical sensors
- Separation and molecular sieve applications
- Thermal Insulation
- Low Temperature Helium Research
- Transpiration-cooled optics