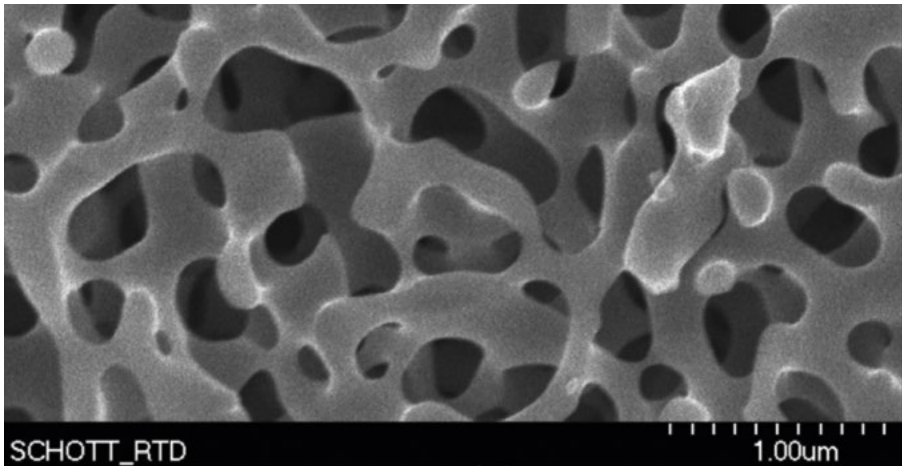
CoralPor® Porous Glass Product Information



Cold field emission scanning electron microscope image of CoralPor® porous glass

Description

CoralPor® porous glass is produced from a borosilicate mother glass that is subjected to meticulously controlled thermal and chemical treatments to create open porosity that can be tailored to meet even the most demanding customer specifications.

Benefits

- Porosity attributes can be tuned over a very wide range
- CoralPor® 2000 offers enhanced chemical durability over a broad pH range (1 to 14)
- High silica, rigid interconnected network microstructure with a low coefficient of thermal expansion
- High internal surface area that can be functionalized using a variety of standard chemical techniques
- Available in numerous formats that include powder, rods, discs, and custom shapes

Product Specifications

	CoralPor® 1000*	CoralPor® 2000
Average pore diameter	4 – 10 nm	40 – 300 nm
Pore diameter distribution	10 – 30 %	7 – 25 %
Surface area	100 – 170 m^2/g	7 – 40 m^2/g
Pore volume	0.2 – 0.3 cc/g	0.4 – 1.0 cc/g

Values indicated above are the typical ranges of nominal performance. CoralPor® 2000 is also available with enhanced chemical durability. As CoralPor® porous glass is tailored to meet specific requirements, please contact SCHOTT to discuss your application.

*Custom geometries available upon request.

Typical Product Applications

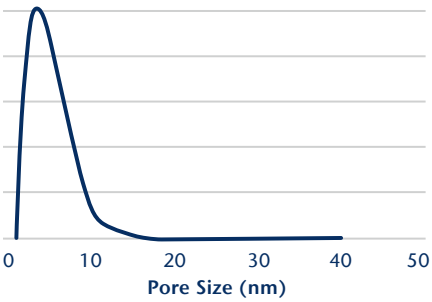
CoralPor® 1000

- Reference electrode junctions
- Desiccants
- Coatings
- Medical devices

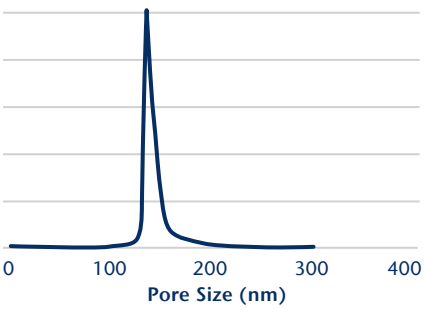
CoralPor® 2000

- Chromatography
- Synthesis substrate/ catalyst support

CoralPor® 1000



CoralPor® 2000



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glass made of ideas