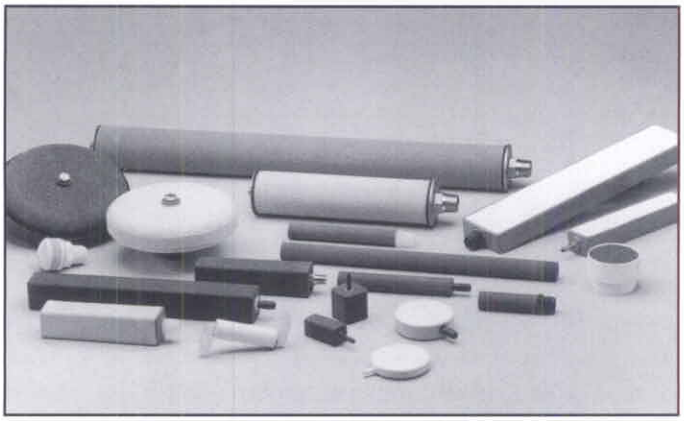
Advanced Porous Ceramics

Refractron Technologies Corp. is the world's leader in the development and manufacture of advanced porous ceramics for applications ranging from small fingerprint pads to large photocopier wick rollers, for filtration, diffusion absorption and desorption.



FEATURES & BENEFITS

- High permeability
- High void volume
- Low pressure drop
- Chemically inert
- Reusable and cleanable
- Stable to over 800°
- Corrosion resistant
- Physically robust
- Fixed pore structure
- Non-shedding
- environmentally safe
- Sterilizable

APPLICATIONS

Process	Application	Product
Filtration	Sand Filter	Underdrain Plate
	AWB Filter	Underdrain Plate
	Point of Use Water	Tube Filter
	Industrial Filtration	Tube Filter
	Catalyst Recovery	Membrane Filter
	Pharmaceutical/Medical	Tubes/Membranes/Plates
	Hot Gas	Candles
Diffusion	Waste Water Treatment	Disc Diffuser
		Dome Diffusers
		Tube Diffusers
	Ozonation	Solidome™
	Degassing	Solidome™
	Dissolved Air Flotation	Solidome™
Adsorption/Desorption	Desiccation	Durasieve™
	Compressor Protection	Durasieve™
	Refrigerant Protection	Durasieve™
	Molecular Separation	Durasieve™
	Selective Adsorption	Durasieve™

Refractron
TECHNOLOGIES CORP.

The World's Leader in Advanced Porous Ceramics

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Material Properties of Porous Ceramic Filter Media

	Alumina (AL_2O_3)	Silicon Carbide (SiC)
Density	2.2g/cm^3	1.9 g/cm^3
Porosity (Volume %)	40-45%	40-45%
Flexural Strength (M.O.R.)	10 MPa (1500 psi)	15 (MPa) (2000 psi)
Thermal Expansion	7 x 10^{-6}/°C	4 x 10^{-6}/°C
Maximum Use Temperature	Reducing: 800°C (1400°F) Oxidizing: 800°C (1400°F)	Reducing: 800°C (1400°F) Oxidizing: 1000°C (1800°F)
Thermal Shock Resistance	Good	Excellent
Resistance to Acids	Excellence resistance to all acids except Hydrofluoric (HF) and phospohoric (H_3PO_4)	Excellence resistance to all acids except Hydrofluoric (HF) and phospohoric (H_3PO_4)
Organic Solvents	Excellence resistance	Excellence resistance

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