



CERAMIC MEMBRANE MODULES · HIGHLIGHTS · 2026

For streams a polymer sheet cannot survive.

Silicon carbide and alumina modules. Zyramic supplies ceramic modules. Elements are sourced from certified sources. Manufacturer names belong in the quotation — not on this sheet.

pH 0–14

SiC class. Acid to caustic.

~2–4× flux

SiC vs alumina, similar pore.

Sourced

Origin on the quotation.

Two catalogsPES flagship. Ceramic
beside it.

Silicon carbide

High flux. Compact. Almost indestructible. Hydrophilic recrystallized SiC. Mostly microfiltration and coarse ultrafiltration. Oil-tolerant. Solvent- and oxidant-stable. Typical geometries: flat sheet, multi-channel tubular, column. Use on oily produced water, harsh chemical slurries, brine, cutting fluids, nano-powder wash, mine water, and new-energy electrode streams. Long-term value — municipal plants included.

Alumina

The workhorse oxide. Lower cost. Wider pore range — tight ultrafiltration and near-nanofiltration. Cross-flow. More fouling on oily streams than SiC. Use on municipal reuse, food and beverage (juice, wine, beer yeast, corn syrup and other sweeteners, pectin and stevia extracts), catalyst recovery, silica sol, and nanoparticle washes. Long-term value, municipal included.

Also sourced

Zeolite pervaporation elements for solvent dehydration (ethanol and similar). A specialty. Ask if the stream is a solvent, not water.

Inquire

Send the stream, temperature (°F), pH, oil, and the cut-off you need. We will say SiC, alumina, or this is still a PES job.

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