



CERAMIC FLAT-SHEET MODULES · CLASS DATASHEET

Flat-sheet ceramic modules

Silicon carbide and alumina plates in a cassette. Zyramic supplies ceramic modules. Elements are sourced from certified sources. Origin is documented on the module quotation.

Typical class — not a Zyramic SKU. Figures below are published class ranges for ceramic flat-sheet modules. They are not a model number, not a flux guarantee, and not a housing drawing. Pore, area, housing size, and pressure are set on the stream and issued on the quotation. This sheet is the ceramic class. The On-Board Scour datasheet is the polymer cassette.

Material class

Silicon carbide is the high-flux class: hydrophilic, recrystallized SiC, oil-tolerant, solvent- and oxidant-stable. Mostly microfiltration and coarse ultrafiltration. Flux is typically about 2–4× alumina at a similar pore. That is a material-class comparison, not a Zyramic SKU guarantee. Compact, and almost indestructible.

Alumina flat sheet is the workhorse oxide: long-term value, municipal plants included. Lower cost. Wider use on reuse and process water. More fouling on oily streams than SiC. Ceramic is specified where backwash and aggressive chemistry are the point.

Typical class figures

Pore	20–500 nm (MF / coarse UF). 100 nm is a common published class. Some SiC reaches about 20 nm.
pH	SiC material class 0–14. Module housing and seals may narrow the range — quoted per stream.
Temperature	Polymer-housed modules typically 40–122 °F (4–50 °C). The ceramic is higher; seals and housing limit.
Plate	Typical published plates about 20–40 in long × 6–10 in wide × 0.24 in thick (500–1000 × 145–250 × 6 mm). About 0.17–0.50 m ² (1.8–5.4 ft ²) per plate.
Cassette	Tens of plates per layer. A common published layer is about 6–8 m ² (65–86 ft ²). Layers stack. Plate spacing about 0.31 in (8 mm).
Pressure	Typical submerged suction to about –9 psi (–0.6 bar). Backwash about 17 psi (1.2 bar). Not a Zyramic SKU rating.
Cleaning	Backwash and chemical clean-in-place where the stream needs it.
Housing	Polymer or glass-fiber cassette class. Stainless frames also exist.

Quoted on the stream

Operating flux, energy, guaranteed capacity, and a Zyramic housing drawing are issued on a project-specific quotation against the stream. Manufacturer names belong in that quotation, not here.

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.

tom@zyramic.com · +1 845 402 6318 · 10 Tucker Dr, Poughkeepsie, NY 12603 USA