

On-Board Scour CIP — Cleaning in Place

CIP restores permeability on the Zyramic On-Board Scour cassette after scour, relaxation, and flux discipline have done their work. This is the polymer flat-sheet PES module. The clean for this sheet is CIP.

PHYSICAL MEASURES FIRST

Start with the plant. These steps keep the membrane open and often restore the run without chemistry.

■ Scour at every module

Confirm scour air is reaching every cassette. Restore any shortfall, then watch TMP.

■ Relaxation cycle

Confirm the programmed relax is actually running. The module stays submerged while vacuum rests.

■ Flux discipline

Hold flux at the project design. Prefer the low end of the published range when the plant can meet its flow that way.

■ Screening and grit

Keep 3 mm perforated plate or mesh (or finer) in service, continuous, with grit removal upstream.

■ MLSS and filterability

A process upset looks like a dirty membrane. Check mixed liquor first.

CHEMICAL CIP — A ZYRAMIC RECIPE, ON THE JOB

Chemical CIP is issued for that job. Zyramic writes the recipe — agent, concentration, contact time, and temperature — in the project submittal or a later O&M revision. This note does not publish a strength or a soak time. Recipes are pending confirmation with the Thermo Fisher PES sheet.

When a recipe is issued, the work is in-tank. Modules stay submerged. The anti-float restraint stays on. Follow the recipe on whether scour runs during the soak. Record agent, concentration, temperature, duration, and TMP before and after. That record is part of the plant file.

WHAT THIS CASSETTE USES

CIP is the clean for this sheet. The PES cassette is not backwashed. Operators who have run ceramic or hollow-fiber plants will find the recipe and the method on the job, not a reverse-flow step on this product.

The full Operation and Maintenance Manual — installation, envelope, records, and the cleaning framework — is on Downloads: Zyramic On-Board Scour O&M manual (ZY-OM-MBR-001).

ASK FOR THE RECIPE

If the project submittal is silent, write Zyramic. The recipe is issued for the job. Zyramic, Inc., 10 Tucker Dr, Poughkeepsie, NY 12603 USA. +1 845 402 6318. tom@zyramic.com.