

NEW KLEANSEP™ MEMBRANE

Product sheet

New KLEANSEP Ceramic Membrane, 15 and 50 kD Cut-Off

To adapt to the demands of new market applications, Orelis Environnement has developed the new Kleansep membrane.

The result of close collaboration with our customers, the Kleansep™ 15 and 50 kD ceramic membranes represent a progressive and carefully managed evolution. Designed to meet the growing needs for tight ultrafiltration, they combine mechanical robustness and operational reliability while preserving the Kleansep™ DNA: proven performance, stability, and long service life.

Technical Specifications

General features		Thermal and chemical resistance	
Geometry:	Multichannel tubular	Maximum Temperature :	Up to 150°C
Ceramic support material:	Al ₂ O ₃ – TiO ₂	Sterilization :	121°C
Ceramic membrane material:	TiO ₂ - ZrO ₂	Sterilization by oxidizing agents :	yes
End sealing:	1 mm or 16 mm	pH range:	0 to 14

Key Benefits

+50% Mechanical Properties

Improved resistance to hydraulic shocks and pressure fluctuations. Ceramic membranes are subjected to repeated mechanical stresses; enhanced strength reduces the risk of micro-cracks and breakage, thereby minimizing unplanned downtime

Enhanced Resistance to Abrasive Liquids

The new formulation reduces wear. The ceramic maintains long-lasting performance and structural integrity.

Superior Longevity and Operational Stability

Extended service life and longer maintenance intervals.
Stable flux performance.
Reduced operating costs (fewer replacements, fewer stoppages) and improved filtration unit availability.

Effective COD Control

The membrane more efficiently retains organic macromolecules and colloids responsible for COD (a key indicator of organic pollution) thanks to tight ultrafiltration.
Measurable reduction of COD in the effluent (compliance with discharge regulations, improved water reuse).

Crossflow Filtration Application Examples



Food & Beverage:
Clarification and concentration of process liquids (e.g., wash waters, protein solutions, whey).



Chemical / Pharmaceutical Industry:
Separation of macromolecules, reuse of process water.



Industrial Wastewater Treatment:
Reduce COD to optimize biological reactor performance and comply with discharge limits.

What Makes KLEANSEP Unique?

Our customers say it best:

« A robust membrane that secures our demanding processes. »

« Extended service life that reduces operating costs. »

« High-performance ultrafiltration that adapts to our processes.»

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