



SERFILCO®

Chemical resistant pumps & filters engineered for industry

SerPure CeraMol Molecular Filtration Media & Systems



Removing Metals and Impurities to Achieve Compliance and Minimise Water Discharge.

SERFILCO SerPure CeraMol Molecular Filters utilise ceramic media for removal of dissolved metals and pollutants from industrial waste waters. Special customized media will remove industrial pollutants and allow extraction of valuable materials from rinses and waste-water. Serfilco SerPure media is designed so it can be regenerated, but low cost enough that it can be replaced at point of exhaustion.

Applications:

- Polishing of Waste-Water to enable re-use of valuable water (remove COD, Organics, Cu, Ni, Cr, Zn, Sn, Cd, Al, Fe).
- Filtration of Rinses to enable recovery and/or removal of metals from the waste-water cycle.

Advantages:

- Consent to Discharge limits will be met.
- The total water consumption and discharge costs will be minimized due to the recycling of a portion of the final treated effluent from the WWTP that can be re-used in the plant.
- Recycling of the rinse tanks minimizes the need for fresh water and thus reduces water consumption and reduces the final wastewater discharged to the WWTP by the rinse tanks

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Available CeraMol Media

Type	Description	Part Number
CeraMol-S	Acid Removal Media	01-8555-S
CeraMol-C	Recalcitrant COD & Organics	01-8555-C
CeraMol-M	Metal Removal Media (Cu, Ni, Cr, Zn, Sn, Pb, Cd)	01-8555-M
CeraMol-Al	Aluminium Removal Media	01-8555-Al
CeraMol-Fe	Iron Removal Media	01-8555-Fe
CeraMol-Cr	Cr3 and Cr6	01-8555-Cr
CeraMol-AN	Chloride, Fluoride, Sulphate, Nitrate, Phosphate	01-8555-AN
<i>Supplied in 45kG Drums</i>		

Typical SerPure CeraMol Filter Systems for Rinses

Model	Description	Code
SerPure-1	Single CeraMol Canister System	PPSPC1-SG10(80)-DM.5
SerPure-2	Bag Pre-Filter plus One CeraMol Canister	PPSPC2-SG10(80)-DM.5
SerPure-3	Bag Pre-Filter plus Two CeraMol Canister	PPSPC3-SG10(80)-DM.5
SerPure-4	Bag Pre-Filter plus Three CeraMol Canister	PPSPC4-SG10(80)-DM.5

All systems manufactured in PP, with EPDM elastomers, mounted on a common base and provided with:
Magnetic Drive Pump, Variable Area Flow Meter, 32mm Interconnecting pipework and valves
Media is held in re-useable PURE cannister each taking up to 10 kG of media
Pump specified to deliver Flow rates of 3-8 lpm per kG of media
Stage 1 Bag-Filter specified at 50µ

Options

Paddlewheel flow sensor with integral transmitter

Pressure Transducer with integral transmitter

Additional Canister

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SERFILCO PURE Media Canister

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