

Datasheet TechDepth-0

Oil-Adsorbing Filter Cartridges

TechDepth-0 filter elements are designed for the effective removal of free and emulsified oils, hydrocarbons, and oily contaminants from water and compatible process liquids. Using highly sophisticated filter media, hydrocarbons are permanently captured as the fluid passes through, creating an immediate and non-reversible interaction that ensures effective oil removal. They are suitable for use in industrial and chemical filtration systems where protection of downstream equipment and stable process performance are required.



Key Features

- High oil adsorption capacity, capable of capturing up to three times its own weight in oil
- Up to 99% oil removal in a single pass
- Effective removal of free and dispersed oils
- No pressure loss or loss in flow rate
- Reduction of hydrocarbon contamination
- Improved reliability of downstream equipment
- Suitable for continuous industrial operation
- Stable performance throughout service life
- Compatible with standard industrial filter housings

Technical Specifications

Parameter	Specifications
Filter Media	Oil-adsorbing polymer / fiber media
Filter Type	Adsorbing Filter Cartridge
Filtration Mechanism	Adsorption / Coalescence
Flow Rate	Dependent on system design and fluid properties
Operating Pressure	Low to medium pressure (application dependent)
Operating Temperature	4 – 60 °C
Maximum Temperature	70 °C
pH Range	5 – 9
End Cap Material	Industrial-grade plastic
Outer Body	Polymer fiber / structured media
Color	White / Natural
Service Life	Application dependent (oil load or time based)

Applications

Industrial & Chemical Applications

- Process water filtration
- Removal of oil and hydrocarbons from industrial wastewater
- Pretreatment for reverse osmosis (RO) and membrane systems
- Protection of pumps, valves, and heat exchangers
- Chemical industry utility water and process streams
- Cooling water and condensate treatment
- Oil polishing in industrial liquid circuits
- Treatment of wash water and cleaning effluents

Typical Contaminant Removal

- Free oil
- Dispersed and emulsified oils
- Hydrocarbons
- Oily residues and films

Actual removal efficiency depends on oil concentration, droplet size, contact time, and operating conditions.

Installation

- Install in a compatible industrial filter housing
- Ensure correct flow direction where applicable
- Commission system according to operating guidelines

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Packaging

- Industrial bulk packaging

Disclaimer

All information provided is indicative and subject to change without prior notice. Final suitability must be confirmed by application-specific evaluation and testing.

Maintenance

- Not regenerable; replace once oil adsorption capacity is exhausted
- Replace when oil breakthrough is unacceptable" (no pressure loss will occur - it's a feature of these elements)
- Dispose of used cartridges in accordance with local environmental regulations

Certifications & Compliance (Optional)

- Industrial-grade materials
- Chemical compatibility information available on request

Ordering information

Code	Length (inch)	- Endcap type (code)	Seal material (gasket)	Option
TF-OIL	5"	FH - Code 7	S = Silicone	Blank = Standard Size
	10"	FG - Code 2	E = EPDM	BB = Big Blue Size
	20"	EH - Code 8	V = Viton	
	30"	EG - Code 3	N = Nitrile	
	40"	AA - DOE		

Example article code:
Example article description:

TF-OIL20-AAE
TechDepth-O 20" DOE EPDM gaskets