

## Fact sheet

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### Organic Depth Type Fuel Filtration

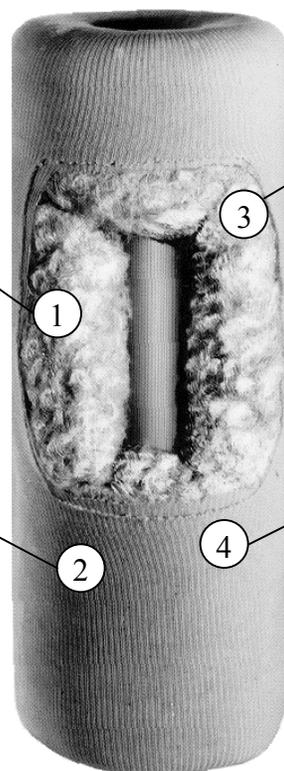
Depth filtration gives the best protection against all types of fuel contaminants, and results in longer service life.

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- ✓ Field Proven Results for over 60 years
- ✓ 100% organic depth media of dewaxed cotton linters for 3 micron control
- ✓ Mechanical and chemical filtration
- ✓ Positively stops cat fines
- ✓ No backflushing sludge produced

1 The standard fuel depth element consists of organic filter media which captures particles of 3-5 microns nominal. These elements are 92-98% efficient when used at the recommended flow rate.

2 Although more expensive than conventional pleated paper elements, tests show that the organic depth element will last 2-1/2 times longer than pleated paper. Lube oil depth elements hold up to 3 to 5 times their weight in dirt.



3 The 100% organic fuel element will absorb and adsorb the corrosive gums, varnishes, and moisture present in fuels today. This greatly extends the service life of the fuel pump and injectors.

4 Organic fuel elements coagulate and precipitate the gums, lacquers and varnishes in free and solution form in the fuel. This allows these precipitates to be absorbed within the organic element which will reduce organic acids.

### Fuel Filtration

Organic depth filtration gives the best protection against all types of fuel contaminants. The densely packed organic materials filter not only the solid particulates – including catalyst fines – but semi-solids, petroleum gums, varnish and other organic compounds through absorption and adsorption by the depth media. Simple pleated paper filters cannot provide this protection because they filter on a barrier or screen principle. Depth filters act more as a sponge to absorb the contaminants while allowing cleaned fuel to pass through. Elements are rated at 3-5 microns nominal. Because these fuel elements are made of depth media, you get protection against particulate, semi-solid and liquid contaminants.

### Longer Service Life as Well as the Best Protection

In normal engine operation, the service life of an organic fuel filter element is determined by its capacity to hold contaminants without reaching the pre-determined differential pressure across the filter. The capacity of an element is determined by the amount of media in the element and the absorbency of the media. Organic depth elements outlast pleated medias because the cellular fibers absorb more contaminants and do not surface or coat over, causing premature high differential pressures.

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