

***Pleated synthetic filter cartridges that resist softening in water-based fluids***

**Description**

Facet FIS Series synthetic filter cartridges provide efficient filtration of fluids in a wide variety of applications, particularly in water based fluids. This range of reliable filter cartridges is used to remove particulate from a broad range of process streams including water based fluids, chemicals and petroleum based fluids. The high performance filter media used in FIS Series filter cartridges will not soften or prematurely plug in water based fluids unlike filter cartridges that use cellulose based filter media.

FIS Series filter cartridges are manufactured using proprietary combinations of polyester and micro-fiberglass filter media to achieve the desired removal rating. The pleated filter media in the FIS Series cartridge is supported by epoxy coated wire to ensure mechanical stability. The use of synthetic and non-woven filter media results in significantly higher dirt holding capacity than similar cartridges that rely solely on cellulose filter media. This cartridge's innovative design delivers higher flow rates at lower initial pressure drops, and longer on-stream life cycles when compared to conventional cellulose filter cartridges of equal efficiency.

Electro-tin plated, spiral center cores and electroplated end caps are standard components. Special configurations are available with a rigid outer cage for increased mechanical strength.



**Benefits**

- Synthetic medias provide high efficiencies, superior strength and durability.
- Superior performance in water based fluids, resulting in longer life.
- Extended surface area for maximum dirt holding capacity and long life.
- One piece construction reduces downtime, cartridge change-out costs and eliminates filter bypass concerns.
- Retention ratings available from 0.5 to 40 microns.
- Electro-tin plated components help prevent rust and corrosion.
- A variety of adhesives and gasket materials offer a wide range of compatibility.

## Applications

- Amines
- Chemicals, Resins, and Solvents
- Coolants
- Cooling and Process Water
- Glycols and Glycol Solutions
- Hydraulic Oils
- Lube Oils & Seal Oils
- Oil and Water Filtration
- Petroleum Refining Applications
- Power Generation
- Pulp and Paper Industry

## Filter Sizes & Dimensions

| Dimensions (nominal)                      |                              |                              |                                  |
|---|------------------------------|------------------------------|----------------------------------|
| <b>SERIES</b><br><i>X = Micron rating</i> | <b>OD</b><br><b>(inches)</b> | <b>ID</b><br><b>(inches)</b> | <b>LENGTH</b><br><b>(inches)</b> |
| FIS-209-X                                 | 2 1/2                        | 1 1/9                        | 9 7/8                            |
| FIS-209-X-3                               | 2 1/2                        | 1 1/9                        | 9 2/3                            |
| FIS-511-X                                 | 4 1/2                        | 1 3/4                        | 11                               |
| FIS-518-X-3                               | 4 1/2                        | 2 5/8                        | 18                               |
| FIS-618-X                                 | 6                            | 3 1/2                        | 18                               |
| FIS-636-X                                 | 6                            | 3 1/2                        | 36                               |
| FIS-718-X                                 | 6                            | 2 5/8                        | 18                               |
| FIS-718-X-1                               | 6                            | 2 1/4                        | 18                               |
| FIS-7618-X                                | 6                            | 2 5/8 x 3 1/2                | 18                               |
| FIS-736-X                                 | 6                            | 2 5/8                        | 36                               |
| FIS-7636-X                                | 6                            | 2 5/8 x 3 1/2                | 36                               |

Note: These are standard sizes. Normal delivery is 2-3 weeks ARO. Many other sizes and combinations are available; please contact us for special sizes.

## Temperature/Compatibility Guide

|                           |                       |           |
|---------------------------|-----------------------|-----------|
| <b>Media</b>              | Polyester/Micro Glass | Polyester |
| <b>Maximum Temp.</b>      | 275° F                | 275° F    |
| <b>pH Range</b>           | 3-10                  | 3-10      |
| <b>Petroleum Products</b> | Excellent             | Excellent |
| <b>Chemicals</b>          | Good                  | Good      |
| <b>Aqueous Solutions</b>  | Excellent             | Excellent |

## Performance Specifications

| ABSOLUTE, BETA 75 REMOVAL, MICRON | 0.5 | 1 | 3 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 75 | 100 |
|-----------------------------------|-----|---|---|---|----|----|----|----|----|----|----|-----|
| Polyester/Micro Fiberglass        | •   | • | • | • |    |    |    |    |    |    |    |     |
| Polyester                         |     |   |   |   | •  | •  | •  | •  | •  | •  | •  | •   |

## Materials of Construction

### Filter Media Options

|                  |   |
|------------------|---|
| <b>0.5-5 µm</b>  | Polyester/Micro fiberglass combination, wire backed |
| <b>10-100 µm</b> | Polyester, wire backed                              |

### Metal Components

|                              |                    |
|------------------------------|--------------------|
| <b>Center Core</b>           | Electro-tin Plated |
| <b>End Caps (Optional)</b>   | Electro-tin Plated |
| <b>Outer Cage (Optional)</b> | Electro-tin Plated |

### Gasket Materials

|                 |   |
|-----------------|---|
| <b>Standard</b> | Buna N  |
| <b>Optional</b> | Vegetable Fiber, Neoprene, Viton®, Non-asbestos Replacement |

### Adhesives

Thermoset PVC, Urethane, Epoxy

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Facet is a trademark of CLARCOR.*

## Ordering Information

| Cartridge Series | Cartridge Dimensions                   | Micron Rating                                    | Outer Body Designation                      | Special Features  |
|------------------|--|--|---|---|
| FIS              | 718                                    | 0.5 µm   | P   | N-1   |
| FIS              | See Filter Sizes and Dimensions Table. | 0.5, 1, 3, 5, 10, 15, 20, 30, 40, 50, 75, 100 µm | No Symbol = No Outer Body<br>P = Outer Body | H = Handle<br>J = Non Asbestos<br>N = Neoprene<br>V = Viton<br>-1 = Special ID<br>-3 = Hilco Retrofit |