# PLATINUM
## 940 SERIES FILTERS

Brochure Code PS940-001-05-13

## *COST EFFECTIVE FILTRATION*

The unique design, U.S. Patent No. 5824232, in FTC's 940 PLATINUM Series absolute rated filter cartridge uses segregated flow channels and flow chambers to maximize the effective surface area of the pleated filter media within a 12.75 inch OD cartridge. Combining this design with the technique of pleating several different filter media together in a single pleat pack maximizes dirt holding capacity.

One 940 PLATINUM Series filter is designed to have the dirt holding capacity of 50 standard 2.5 inch OD pleated cartridges of similar length. With a recommended flow rate of 150 GPM, this FTC PLATINUM Series filter is the solution to achieving optimum performance while minimizing filtration costs.

## *BENEFITS*

- *Provides significantly greater dirt holding capacity than traditional industry size cartridges*
- *High concentration of surface area and dirt holding capacity into one cartridges allows for small vessel footprint in sensitive applications*
- *Wide-range of media options allows for compatibility with most fluids*
- *Constructed with metal end caps and core for high temperature applications*
- *Absolute rated media with fixed pore structure prevents particle unloading and provides reliable results in critical applications*

## *COMMON APPLICATIONS*

- *Fuels, Pre-RO, Completion Fluids, Brines, Waterflood, Produced Water, Disposal Water*

## *DIMENSIONS*

| | |
|---|---|
| Outside Diameter: | 12.75” |
| Inside Diameter: | 3.00” |
| Length: | 40” |

## *MATERIALS OF CONSTRUCTION*

| | |
|---|---|
| Filter Media: | Cellulose, Polypropylene, Glass, Nylon or Polyester |
| Center Core: | Tinned Steel or Stainless Steel |
| Netting: | Polypropylene or Nylon |
| End Caps: | Tinned Steel or Stainless Steel |

# *PRODUCT SPECIFICATIONS*

**Micron Ratings @ 99.98% (beta 5000):**
0.5, 2, 5, 10, 20, 40 and 70 Micron

**Maximum Operating Conditions:**
185°F (85°C) Continuous Operating Temp

**Recommended Flow Rate for Optimal Dirt Loading:**
150 GPM Per standard 40" filter

**Maximum Recommended Flow Rate:**
300 GPM Per standard 40" filter

**Maximum Recommended Differential Pressure:**
35 PSID

*Data based on Filtration Technology Corporation Research and Development Center's standard test procedure, a modified version of ISO 19438. The procedure uses ISO Standard test dust and deionized water as the challenge slurry. The reported data is based on the polypropylene elements.*

## *MEDIA MICRON RATING AT EFFICIENCY*

| *FILTER MODEL* | *940* | *941* | *943* | *945* | *947* | *948* | *949* |
|---|---|---|---|---|---|---|---|
| 99.00% (beta 100) | 0.3 | 1 | 2 | 5 | 10 | 25 | 40 |
| 99.98% (beta 5000) | 0.5 | 2 | 5 | 10 | 20 | 40 | 70 |

## *DIRT HOLDING CAPACITY (LBS)**

*Based on Standard 40" filter element*

| *FILTER MODEL* | *940* | *941* | *943* | *945* | *947* | *948* | *949* |
|---|---|---|---|---|---|---|---|
| Pounds of Solids | 55 | 76 | 80 | 83 | 85 | 100 | 100 |

## *CLEAN PRESSURE DROP (PSID)**

*Based on Standard 40" filter element*

| *FILTER MODEL* | *940* | *941* | *943* | *945* | *947* | *948* | *949* |
|---|---|---|---|---|---|---|---|
| PSID @ 150 GPM | 1.58 | 1.05 | 0.61 | 0.54 | 0.50 | 0.46 | 0.40 |
| PSID @ 300 GPM | 6.20 | 4.15 | 2.54 | 2.25 | 2.03 | 1.85 | 1.76 |

# CARTRIDGE CODING

| PS | – | 941 | – | | P | 40 | 5 | E |
|---|---|---|---|---|---|---|---|---|
| PLATINUM 940 SERIES | | MICRON RATING 99.98% | | NON-MEDIA COMPONENTS | MEDIA | LENGTH | END CAP | O-RING SEAL |
| | | **940 -** 0.5 Micron | | **None** - Carbon Steel | **C** - Cellulose | **40** - 40" | **5** – Dual o-ring | **B -** Buna |
| | | **941 -** 2 Micron | | **S** - 304 Stainless | **G** - Glass | | | **E -** EPDM |
| | | **943 -** 5 Micron | | | **N** - Nylon | | | **V -** Viton® |
| | | **945 -** 10 Micron | | | **P** - Polypropylene | | | |
| | | **947 -** 20 Micron | | | **R** - Polyester | | | |
| | | **948 -** 40 Micron | | | | | | |
| | | **949** - 70 Micron | | | | | | |



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