



HFM-183 ELEMENTS

Spiral Ultrafiltration Element for Cathodic Electrocoat Paint

| | | |
|----------------------------|---------------------|--|
| PRODUCT DESCRIPTION | Membrane Chemistry: | PVDF |
| | Membrane Type: | HFM-183 (Positive Charge) |
| | Construction: | Spiral wound element with hard overwrap and flanged seal |
| | Seal: | Rubber Gasket |

| PRODUCT SPECIFICATIONS | Part Number | Description | Active Membrane Area | Feed Spacer |
|-------------------------------|-------------|---------------|-----------------------------------|-------------|
| | | | ft ² (m ²) | mil (mm) |
| | 0700770 | 7533-M183-VPF | 208 (19.3) | 43 (1.1) |
| | 0700772 | 7533-M183-LPF | 230 (21.4) | 31 (0.8) |

| | | |
|--|--------------------------------------|----------------------------------|
| OPERATING & DESIGN INFORMATION* | Maximum Inlet Pressure: | 80 psi @ 125°F (5.5 bar @ 52°C) |
| | Minimum Outlet Pressure: | 15 psi (1 bar) |
| | Maximum operating temperature: | 125°F (52°C) |
| | Allowable pH – continuous operation: | 2 - 10 @ 125°F (52°C) |
| | Allowable pH – short term cleaning: | 1.5 - 10.5 @ 125°F (52°C) |
| | Maximum Feed Side Pressure Drop: | 30 psi @ 125°F (2.07 bar @ 52°C) |
| | Maximum Permeate Pressure: | 5 psi (0.3 bar) |

* Consult KMS Process Technology Group for specific applications.

| NOMINAL DIMENSIONS | Nominal Outside Diameter | Nominal Length | Permeate Tube Outside Diameter |
|---------------------------|--------------------------|----------------|--------------------------------|
| | inches (mm) | inches (mm) | inches (mm) |
| | 7.49 (190) | 39.3 (998) | 1.660 (42.2) |

MEMBRANE INCOMPATIBILITY

Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Membrane Systems. Aside from the listed chemicals below, synthetic coolants, semi-synthetic coolants, kerosenes, naphtha, gasoline, flocculation polymers may affect membrane performance.

Chemicals that should be avoided include the following:

- Aprotic Solvent (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrrolidine, etc.)
- Chlorinated Solvents (e.g., Methylene Chloride, Chloroform, Carbon Tetrachloride, etc.)
- Ketones (e.g., Acetone, Diacetone Alcohol, etc.)
- Silicones or Silicone based Defoamers (e.g., Siloxane)

SERVICE AND ONGOING TECHNICAL SUPPORT

Koch Membrane Systems, Inc. has an experienced staff of professionals available to assist end-users and OEMs for optimization of existing systems and support the development of new applications. Along with the availability of supplemental technical bulletins, Koch Membrane Systems, Inc. also offers a complete line of KOCHKLEEN™ cleaning chemicals.

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