Pall Corporation

Pall Ultipor® Max
Filter elements

The new generation of Ultipor filter elements feature a new composite/synthetic structure and a new pleat geometry offering increased filter area, low pressure drop and longer service life.

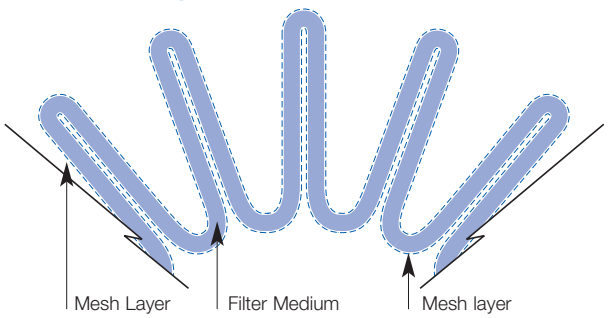
ULTIPOR® FILTRATION Max

The optimized **Ultipor** Max filter element design is suited for high viscosity and conventional lubrication and hydraulic fluid applications. **Ultipor** Max filter elements directly replace **Ultipor** III filter elements in existing Pall Coreless filter housings.

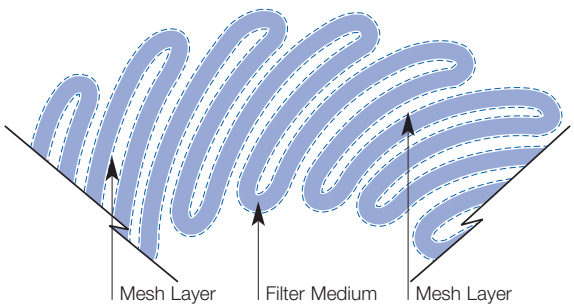
Feature	Benefit
• Optimized filter medium pack design	- Low initial pressure drop - Extended filter element service life
• Wave shaped pleat geometry	- Significantly increased filtration area - Uniform flow distribution through the filter element
• High filtration efficiency rating ($\beta_{x(c)}$>1000)	- Superior control of particles in critical size ranges that contribute to component wear
• High strength construction	- Consistent performance throughout filter element service life
• Coreless, cageless, filter element configuration	- Light weight and lower disposal costs
• Wide fluid and temperature compatibility	- Suitable for use in a wide range of applications and operating conditions
• Same form and fit as **Ultipor** III filter elements	- Direct installation in existing coreless **Ultipor** III filter housings - High performance and value for low operating costs

Ultipor Max filter elements

Conventional pleated filter element



Ultipor Max filter element



The wave shaped pleat geometry of **Ultipor** Max filter elements

Specifications

- **Multi-pass filter ratings (per ISO 16889),**
  See figure 1

- **Element Collapse Pressure Rating (ISO 2941)**
  10 bard (150 psid)

- **Fluid Compatibility (ISO 2943)**
  Compatible with petroleum oils, water glycols, water-oil emulsions, high water containing fluids, industrial phosphate esters and carboxylic acid esters, and most synthetic hydraulic and lubrication fluids.

- **Flow vs. Pressure Drop (ISO 3968)**
  See table 1

- **Flow Fatigue (ISO 3724)**
  Contact factory; filter element structure incorporates upstream and downstream medium support to achieve maximum fatigue cycle life.

- **Fabrication Integrity (ISO 2942)**
  Fabrication integrity is validated and assured during the manufacturing process by numerous evaluations and inspections including Bubble Point testing.

- **Temperature Range**
  Fluorocarbon seals: -29 °C (-20 °F) to +120 °C (+250 °F)
  60 °C (140 °F) maximum for HWCF or water glycol fluids

- **Quality Control**
  All filter elements are manufactured by Pall to exacting procedures and strict quality controls. Elements are checked against rigorous ongoing validation test protocols within Pall Corporation.

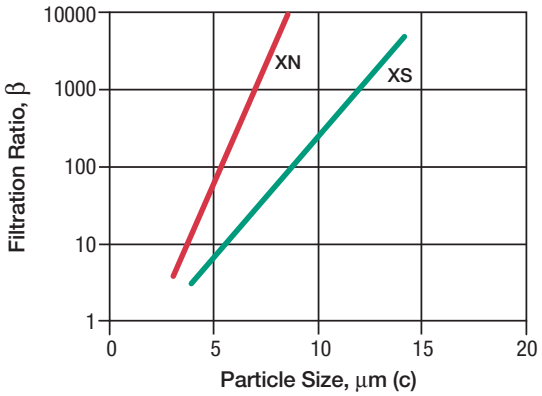
Element Pressure Drop

Multiply actual flow rate times factor in table below to determine pressure drop with fluid at 32 cSt (150 SUS), 0.9 S.G. Correct for other fluids by multiplying new viscosity in cSt/32 (SUS/150) x new S.G./0.9.
Note: factors are per 1000 L/min and per 1 USgpm.

Table 1: 8334 Series Filter Elements - bard/1000 L/min (psid/USgpm)

Length Code	XN	XS
39	0.4245 (0.0233)	0.4118 (0.0226)

Figure 1: Filtration Ratios per ISO 16889



Pall Ultipor® Max Ordering Information

Filter Element P/N: HC8334F ☐ 39 Z
Table 2

Note: Z indicates fluorocarbon seals are standard.
Other options are available; contact Pall.

Table 2: Pall Media Grade

Code	$\beta_{x(c)} \geq 1000$ Based on ISO 16889
XN	7
XS	12

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Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: EP 470,485; US 5,252,207; US 5,552,048.

Filtration. Separation. Solution.SM

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