



# Coralon Filters

**NEW: Coralon™ Filter Elements**  
 Upgrade filter elements for Ultipor® filters

## Keeping fluids cleaner, longer, for greater value

Coralon filters represent a significant advancement in equipment protection and are a direct replacement (same form, fit, and function including fluid and temperature compatibility) for current Ultipor filter elements.

### Features

- Direct replacement for Ultipor elements
- Advanced pack design
- Stress-resistant media technology
- Standard or Anti-static media options available
- Out-to-in flow path\*

\*except for in-tank filter options

### Innovative Media Performance

Pall's new series of hydraulic & lube filter elements feature SRT (stress-resistant technology) media for unsurpassed performance and value. Coralon elements provide:

- Low element pressure drop for small envelope size and long life
- Optimum performance under system stresses at all stages of filter life for consistently cleaner fluid
- Anti-static options to prevent electrostatic charging and potential varnish formation

### In addition to improved performance, what differences will I see?

- Coralon filters upgrade Pall Ultipor III, Ultipor III Coreless, Ultipor Dirt Fuse, Ultipor SRT, Ultipor Plus, Ultipor Max, and Red1000 elements in all standard medium grades (Z, P, N, S, T).
- The new elements will have a medium code of "C" (standard) or "A" (anti-static) in place of existing "U", "D", "K", "M" or "X" code in the current filter element part number; see examples in the adjacent table.



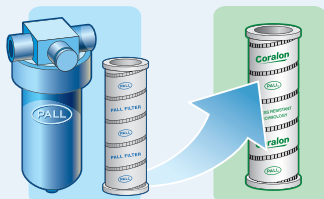
Coralon Filter Elements

### Examples of new filter element part number

Existing number	New number
HC9600FKP8Z	HC9600FCP8Z
HC9601FDP13Z	HC9601FCP13Z

The part number is printed on the bottom endcap of the filter element

Pall Housing & Pall Ultipor® III Element



### UPGRADED filtration for improved protection and reduced costs...

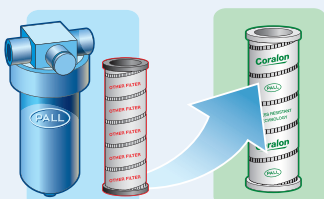
#### Pall Coralon Filtration

- Improved fluid cleanliness
- Consistent performance throughout filter service life
- Lower pressure drop
- Same housing

✓...same price!

- ✓ 2x improvement in fluid cleanliness
  - ✓ 2x improvement in fluid cleanliness stability (throughout the filter's service life)
  - ✓ 5% reduction in total cost of filtration
- Leading to reduced equipment operating costs

Pall Housing & Competitor Element



### UPGRADED filtration for improved protection and reduced costs...

#### Pall Coralon Filtration

- Improved fluid cleanliness
- Consistent performance throughout filter service life
- Lower pressure drop
- Same housing

✓...no brainer!

- ✓ Up to 15x improvement in fluid cleanliness
  - ✓ Up to 16x improvement in fluid cleanliness stability (throughout the filter's service life)
  - ✓ Up to 20% reduction in total cost of filtration
- Leading to reduced equipment operating costs

## Specifications

Element Collapse

Pressure Rating:

10 barg (150 psid) minimum for Coreless Ultipor filter elements (polymer end caps) and for use in filters with bypass  
 20 barg (300 psid) minimum for Ultipor filter elements (metal end caps and core) and for use in filters with bypass  
 210 barg (3,045 psid) minimum for Ultipor high strength filter elements (metal end caps and core) and for use in filters without bypass

Temperature Range

Fluorocarbon:

-29°C (-20°F) to +120°C (+250°F)

Nitrile:

-43°C (-45°F) to +120°C (+250°F)

Note :

Maximum 60°C (140°F) in water based fluids

Seals:

Fluorocarbon or nitrile

Fluid Compatibility:

Compatible with petroleum oils, water glycols, water-oil emulsions, and high water containing fluids.

Filter Construction:

Cored filter elements - Corrosion protected end caps and core  
 Coreless filter elements - Polymer end caps only

Filter Element medium:

Inorganic fibers impregnated and bonded with epoxy resins.

All Coralon filter elements are manufactured by Pall to exacting procedures and strict quality controls. Elements are validated to the following ISO test protocols :

- Filter Ratings:
  - Cyclic Stabilization Test (80%  $\Delta p$ ) based on SAE ARP4205. For ISO Code ratings, see Table 1
  - $\beta_{x(c)} \geq 1000$  multi-pass filter ratings (per ISO 16889)
- Element Collapse Pressure Rating (ISO 2941)
- Fluid Compatibility (ISO 2943)
- Flow vs. Pressure Drop (ISO 3968)
- Flow Fatigue (ISO 3724)
- Fabrication Integrity (ISO 2942)

For further information on test protocols and certification, please contact Pall sales.

## Measuring Filter Performance - the Cyclic Stabilization Test (based on SAE ARP4205):

Conditions such as varying flow, cold starts, shock and vibration can potentially reduce the effectiveness of a filter in an operating system.

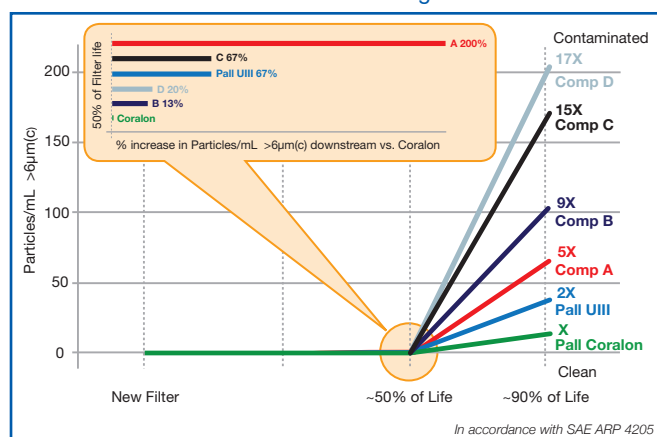
The Cyclic Stabilization Test examines the effects of cyclic flow conditions and dirt loading on the capture and retention characteristics of the filter. The result is an improved filter performance reporting method that simply tells the user via ISO Codes (see Table 1) the level of contamination control that can be maintained throughout the filter's service life.

Table 1 - Filter Performance Ratings

Coralon Filter Grade	$\beta_{x(c)} \geq 1000$ per ISO 16889	ISO Code Rating per Stress-Resistance Test (80% $\Delta p$ )*
CZ	3	10/08/03
CP	5	12/09/07
CN	7	14/11/06
CS	12	15/11/06
CT	22	16/14/08

\* based on 60 psid terminal pressure drop

## The Coralon Filter Performance Advantage



A critical measure of a filter's performance is its ability to sustain fluid cleanliness throughout its service life.

This graph compares a Coralon 7µm(c) rated filter to an Ultipor III filter and four competitors' products with equivalent ratings.

Only Coralon filters produce sustained fluid cleanliness over the full life of the filter.



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Better Lives.  
 Better Planet.<sup>SM</sup>

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