Coralon Filters Product Overview
Coralon filter elements incorporate Pall Corporation’s advanced filter medium pack construction that benefits from Stress-Resistant filter medium Technology (SRT) along with other material upgrades. These upgrades include specially blended layers of fiberglass, optimized construction for low differential pressure and stress resistance, tapered pore construction, uniform pore size control layer and epoxy resin bonded fiber structure.

The Coralon filter element validation process included a Production Qualification Process, Internal Laboratory Filter Testing per ISO Filter Test Standards and Field Testing.

Production Qualification of Coralon Filter Elements
A Production Qualification process was carried out on the Coralon filter elements in order to confirm manufacturing process capabilities, clarify SPC (Statistical Process Control) requirements for defined critical to quality measurements, clarify the requirements for releasing Coralon work cells for production and document requirements for production at Pall manufacturing sites. Upon successful completion of the Production Qualification process, representative Coralon filter element samples were manufactured for internal laboratory filter testing.

Pall Internal Laboratory Testing
Internal laboratory filter testing per ISO Filter Test Standards on the Coralon filter elements was conducted in order to generate product performance claims and specifications. All testing is complete and the results show that the Coralon filter elements have met the performance goals.

This internal laboratory testing included:
1. Material Compatibility per ISO 2943 - Verified by heat soak for 72 hours at 15°C (27°F) higher than the above rated maximum temperatures in a series of fluids and qualified by similarity to Ultipor® III and Ultipleat® SRT filter element materials.
2. Fabrication integrity per ISO 2942, “Hydraulic fluid power – Filter elements – Verification of fabrication integrity and determination of the first bubble point”.
3. Clean Element differential pressure per ISO 3968 - “Hydraulic fluid power – Filters – Evaluation of pressure drop vs. flow characteristics”.

Field Testing of Coralon Filter Elements
Coralon filter element field testing was conducted at field sites in the U.S. The field tests consisted of establishing current Ultipor III filter element performance, installing the Coralon filter element upgrades and measuring comparative filter performance in terms of fluid cleanliness achieved throughout the full service life of the filter.

Each field test system was monitored with a Pall PFC400 laser particle counting instrument to demonstrate fluid cleanliness level consistency and improved performance compared to Ultipor III filter elements. The field test results to date have shown that the Coralon filter elements have out-performed the Ultipor III filter elements. The field testing is continuing and additional test sites are being developed. For more information contact Pall sales.
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