ELEMENT TECHNOLOGY

Product Brochure





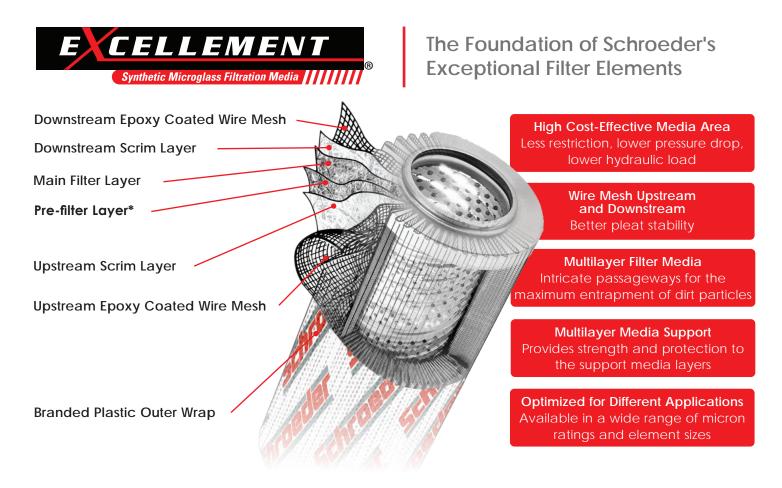


Advanced Fluid Conditioning Solutions®



Did you know? The vast majority of hydraulic equipment failures are the result of fluid contamination!

The right filter element can be the difference between smooth, efficient operation or costly downtime and repairs. Schroeder Industries has engineered a wide range of elements for filtration you can rely on:



The special class of micro-glass and other fibers used in Z-Media® are manufactured with utmost precision, to specific thicknesses and densities, and bonded with select resins to create material with extra fine passages.

Element Media	Filtration Ratio Per ISO 16889			
	ßx(c) ≥ 75 (98.7%)	ßx(c) ≥ 100 (99%)	ßx(c) ≥ 200 (99.5%)	ßx(c) ≥ 1000 (99.9%)
Z1	<4.0	<4.0	<4.0	4.2
Z 3	<4.0	<4.0	<4.0	4.8
Z 5	<4.0	4.2	4.8	6.3
Z10	6.8	7.1	8.0	10.0
725	16.3	17.1	19.0	24.0





Reduce Pressure Drop & Increase Energy Efficiency

- Specially formulated, high-efficiency, low differential pressure media provides the lower pressure drop at any given level of filtration
- Exceptionally low pressure drop is ideal for battery drive hydraulic circuits and hydraulic drive motor-pump units, particularly in cold-start conditions



Part of Schroeder's Energy Sustainability Initiative

Downstream Epoxy-Coated Wire Mesh

Downstream Scrim Layer

Specialty Low DP Filter Media

Upstream Scrim Layer

Upstream Epoxy-Coated Wire Mesh

Branded Plastic Outer Wrap

When tested against the typical synthetic microglass media currently available, our 10-micron Electric Drive Media element demonstrated a 68% lower pressure drop factor:

Media Type	β200 [μm(c)]	Pressure Drop Factor [psid/gpm]	
E-Drive Media (10 μ)	10.2	0.050	
Typical Synthetic Media (10 μ)	10.6	0.156	

- Element Collapse Rating: 145 psid (10 bar)
- Temperature Range: -22°F to 212°F (-30°C to 100°C)
- Flow Direction: Outside to Inside





For Powerful Dewatering & Particulate Filtration

- Includes a layer of optimized, specially formulated water removal media
- The particulate-removing filtration power of Excellement® media combined with potent water removal capabilities
- Available in multiple element sizes in both cartridge and spin-on style



Did you know? Lower oil conductivity means more electrostatic discharge (ESD) in your hydraulic system!

As low-conductivity oils become more widespread, ensure your equipment is protected with the best static-busting filter elements.





A Reliable, High-Performance Solution for Low to Moderate ESD

- Formerly called Anti-Stat Pleat—same great anti-static performance with an updated look!
- Specially formulated media dissipates electric charges before they can begin damaging your system
- Cost effective option for mid-range ESD scenarios
- Effective for conductivity values higher than 100 pS/m



Supercharged Static-Busting Capabilities for Extreme ESD

- The newest, highest performance option in Schroeder Industries' anti-static element arsenal!
- Eliminates virtually all static buildup at the source in all operating conditions, including low temperature cold start
- Effective for even the most critical cases of ESD, tackling conductivity values lower than 100 pS/m

Which Anti-Static Element is Right for Your Application?

Depending on the level of conductivity in your hydraulic fluid, different element options are recommended for High, Medium, or Low/Critical conductivity.





Conductivity [pS/m]



Modern Turbine

Lubricating Oils

Conductive Hydraulic & Lubricating Oils

- Fuchs Renolin MR
- Mobile Glygoyle
- Renolin PG
- Fragol TR
- Fuchs Renolin B HV
- Mobile DTE Excel

Most Zinc & Ash-Free **Hydraulic & Lubricating Oils**

Fuchs ZAF

500 pS/m

- Texaco Rando
- Panolin HLP
- ESSO Nuto H
- Renolin BHVI
- Shell Tellus S2
- · Shell Tellus S
- Total Equivis
- Megol HLP Aral Vitam
- · Shell Vitrea
- Mobile DTE Addinol MT

HDZ

100 pS/m

Mobile Terrestic T
 Shell Turbo GT

Texaco Rando

Mobile Terrestic

Shell Turbo S4 X

Shell Turbo T

- Chevron GST/EP
- ESSO Teresso GT
- Texaco Premium
- Regal EP • Shell Turbo S4 Gx
- · Castrol Hyspin VG
- Shell Turbo CC

HIGH

LOW/

CRITICAL





A Superior Alternative to **Inside-Out Filtration**

- DirtCatcher®'s outer shell prevents contaminants from falling back into the system during element changes for increased system protection
- Provides the excellent dirt retention of Excellement® media
- DirtCatcher® elements are available in single and double length K, BB, and 18L sizes



GeoSeal® Unique Solution to Retain Replacement Element Business

- Provides a unique way for OEM's to retain replacement element business and maintain filter performance
- Utilizes a non-circular critical sealing arrangement between element and filter housing
- The unique geometric shape of the element grommet and mating bushing prevents low-quality will-fit substitutes



Part of Schroeder's Quality Protected line of products





Customizable Bushing/Element Interface for Patented Protection

- Unique interlocking "Lock & Key" interface between the bushing and element in some filter housings
- The specific Lock & Key pattern allows only corresponding Lock & Key Elements to seal correctly
- Lock & Key pattern can be customized for specific **OEM** requirements



Part of Schroeder's Quality Protected line of products



Coalescing Elements

- Designed to provide the highest water and particulate removal efficiency for today's ULSD and biodiesel based fuels
- Patent-pending, three-phase, particulate and fuel/water separation media technology
- Tested according to the SAE J1488 water removal test and ISO 16889 particulate removal test, modern standards used to evaluate today's fuel cleanliness technology



F-Pack Elements

- Engineered for optimal performance in fire-resistant fluids
- Assures safe and dependable operation in an electro hydraulic system (EHC)
- The change-over to "F" pack media from a traditional, high performance, synthetic media results in lower clean pressure drop and higher efficiency
- Eliminates cast-off, or shedding of synthetic fibers, which can result in component failure



CNG Elements

- For the removal of contaminates including water, compressor oil, rust, and scale from compressed gasses
- Provides the necessary protection for sensitive alternative fuel system components, extending system life and reducing overall maintenance costs
- High quality solutions available for common dispensing and on-vehicle applications with operating pressure up to 3,000 psi

BestFit

Premium filter element equivalents for over 42,000 OEM-brand part numbers and counting!

- Affordable filtration solutions sized to fit a wide variety of applications and replace a wide range of competitor elements
- Cartridge and spin-on styles available
- Variety of media grades (cellulose, synthetic, water removal, anti-stat, stainless steel, metal mesh)
- Available for private label branding

 Try our convenient Element Cross Reference Search Tool: schroederinstg.wpenginepowered.com/cross-reference/





Private Labeling

OEM private labeling is available for Schroeder Industries' signature high-performance elements

- Increase aftermarket revenue
- Ensure appropriate use of high-quality elements
- Reduce warranty claims



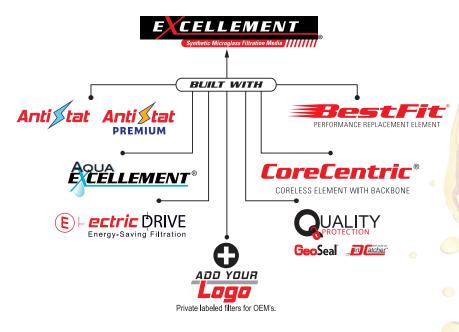






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The Wide World of Schroeder Z-Media®

Schroeder Z-Media® elements are tested under cyclic flow conditions to verify flow fatigue characteristics. Extra strength and rigidity are engineered into every one of these filter elements through the use of stainless steel wire fabric and additional support layers. (ZX Series high crush strength capabilities are available for 3000 psi applications.)

A wide range of Schroeder Z-Media® elements, developed through comprehensive laboratory testing and field performance studies, enable you to achieve the desired cleanliness level for your system and tackle application-specific challenges.

We are confident that the high efficiencies, exceptional dirt holding capacities, and low pressure drops—combined with Schroeder's competitive prices— make elements made with Z-Media® the best value in the market today.

Visit us online @ www.schroederindustries.com for our complete product offering!



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