



Service • Quality • Innovation

PowerGuard™ Media Upgrades





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Patented SmartMedia™ Technology

Maximize your uptime by maintaining optimal system pressure and cleanliness with this innovative and drop-in ready parallel flow solution.

TTI SmartMedia filters are ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more. They also offer exceptionally low pressure drops for most hydraulic, lubrication, or bulk fluid transfer systems.

Major Benefits of SmartMedia:

- Up to 35% Longer Filter Life
- Up to 35% Lower Initial Pressure Drop
- Drop-In Solution for Existing Applications
- Patent Protected Design

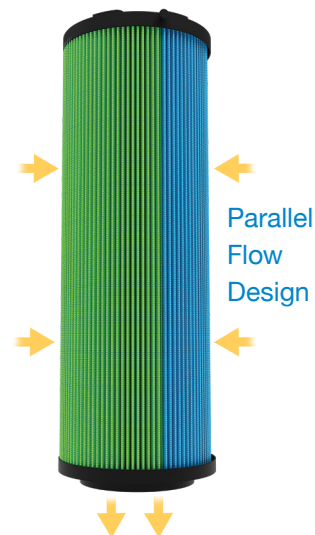
Ideal Industries for SmartMedia:

- Power Generation & Transmission
- Steel Manufacturing
- Pulp and Paper Mills
- Oil & Gas

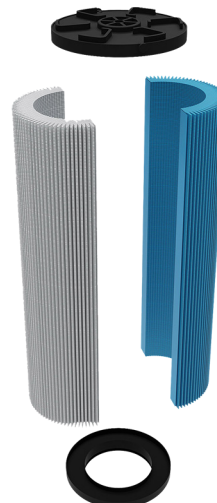
Ideal Applications for SmartMedia:

- Cold Startup Conditions
- High Viscosity Fluid
- High System Differential Pressure
- Fluid Pulsation
- Equipment Upsets

One Media to
Maximize Flow
Rate, Reduce
Differential
Pressure, and
Maximize Dirt
Holding Capacity



One Media
to Exceed
Your ISO
Cleanliness
Expectations



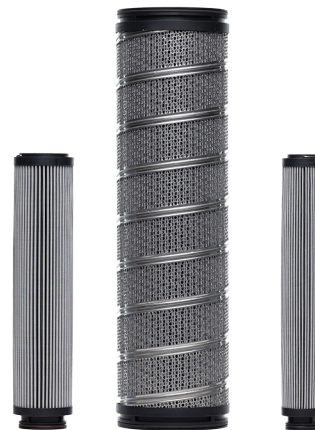


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StaticGuard™ Static Dissipative Media

StaticGuard media allows static potential to dissipate from filter elements. Electrostatic Discharge (ESD) is static electricity that discharges from filter elements, through the filter media, and to the filter housing. ESD can degrade fluids, increase varnish potential, burn holes through filter media, and lead to hazardous conditions.

If hazardous conditions occur, this may result in explosions in headspace and the destruction of sensitive electronics. If holes are burned through the filter media, fluid will bypass filtration altogether, leading to a massive reduction in oil cleanliness.

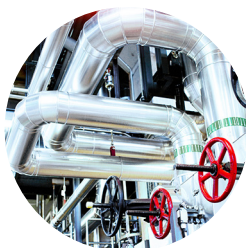


To combat these dangers, StaticGuard media utilizes a proprietary mixture of conductive fibers within the element composition, ensuring stable properties and performance throughout the life of the filter. There is minimal aging or loss of conductivity with high heat or oil exposure compared to other coated filter media on the market.

Benefits of StaticGuard Media

- Increased System Uptime
- Maximized Fluid and Lubricant Health
- Maximized equipment protection against damage

While traditional strainer filters do help prevent static discharge, they offer no protection against the inevitable damage, downtime, and profit loss caused by system contamination.





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Water Absorptive Media

The PowerGuard™ Water Absorptive media option removes both free and emulsified water, along with the standard DuoGlass media benefits of superior filtration efficiency and higher dirt holding capacity.

Benefits of Water Absorptive Media

Long-term benefits of reducing the water content within systems:

- Increased System Uptime
- Maximized Fluid and Lubricant Health
- Extended System Service Life

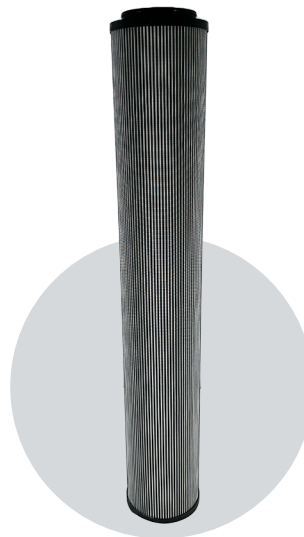
Water Holding Capabilities By Element

Moisture content in PPM x Amount of Fluid in Gallons x 0.000128 = oz of water content

Moisture content in PPM x Amount of Fluid in liters x 0.000001 = liters of water content



TTI Element: TT75S-8-*CWA*
Water Capacity: 11oz / 0.330L



TTI Element: TT207-36-*WA*
Water Capacity: 180oz / 5.32L



TTI Element: TT8314-39-*WA*
Water Capacity: 180oz / 5.30L



TTI Element: TT9600-8-*WA*
Water Capacity: 11oz / 0.33L

Stainless Steel Wire Mesh

Wire mesh media is vital to the preventative maintenance of numerous hydraulic and lubrication applications, providing an efficient and reliable filtration solution. Constructed with robust stainless steel, this filtration media offers exceptional durability, ensuring long-lasting performance even under challenging conditions.

Benefits of Wire Mesh Media

Widely preferred in industries such as steel manufacturing, mining, oil and gas, and fracking, Stainless Steel Wire Mesh is ideal for rugged applications with specific filtration requirements.

Available in 25, 50, 74, and 149µm ratings, Stainless Steel Wire Mesh serves as an extra-durable and open option to TTI's standard DuoGlass.



Ideal Applications for Wire Mesh Media

- Water glycol
- High viscosity lubricants
- Gear oils
- Suction strainers

Insoluble Removal Media

The PowerGuard™ Insoluble Removal media option protects against particulate contamination, water, insoluble oxidation by-product, and varnish.

Benefits of Insoluble Removal Media

Long-term protection against the toughest contaminants:

- Fine Particulate < 1 micron
- Insoluble Oxidation By-Products
- Water
- Varnish



While traditional filter media is effective at removing standard particulates, it provides no assistance removing fine particulates, insoluble particulates, or varnish.