

JLP Series

TRI-SHIELD™ Liquid Particulate Cartridges for solid contaminant removal in a wide range of applications.

Jonell Systems TRI-SHIELD cartridges for liquid vessels are used to filter solid and semi solid contaminants in mid stream oil & gas, refining, chemical, food & beverage and a range of general industrial applications.

With up to 30% lower initial differential pressures and 3 times greater dirt holding capacity, TRI-SHIELD cartridges have superior filtration performance when compared to resin bonded, melt blown, string wound and sock filters in liquid applications.

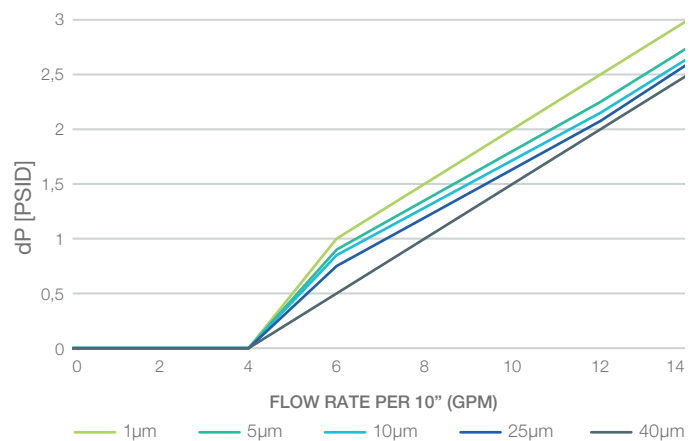
TRI-SHIELD provides for **up to 5X*** the flow rate compared to competing thermally bonded gradient depth technologies with the same initial dP providing higher through put and longer life.

Features and benefits

- The blend of engineered cylindrical and TRI-Lobal fibers are specified to deliver true gradient depth for superior dirt loading compared to conventional depth cartridges.
- Patented design and manufacturing maximizes void space while maintaining high efficiencies and maximizing dirt loading.
- Efficiency controlled by blending denier rated fibers into an engineered media for repeatable filtration performance.
- Robust bonded matrix prevents media compression to prevent any contaminant unloading.
- Coreless design allows for easier disposal and better chemical compatibility.
- Resin and binder free design drives greater deformable and shear sensitive contaminant capacity.
- Textured cartridge with a coarse finish designed to improve filtration performance.




TRI-SHIELD DELIVERS HALF THE DIFFERENTIAL PRESSURE AT STARTUP*



* Compared to PECO PEACH Cartridges and other depth filtration technology.

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Specifications

| Products | Specifications | Liquid Particulate Cartridge | |
|---|---------------------|--|---|
|  | Diameter | 2.50", 2.750", 3.00", 6.00" | |
| | Nominal Lengths | 9.75", 10", 19.5", 20", 29.25", 30", 36", 40", 47", 60" | |
| | Media type | Depth Style Polyester | Depth Style Polypropylene |
| | Gasket | No Gasket Buna-N EPR | Viton Silicone TES |
| | Micron Range | 1μ, 5μ, 10μ, 25μ, 40μ, 50μ, 60μ, 75μ | 1μ, 5μ, 10μ, 25μ, 40μ |
| | Efficiency | 90%, 99.9% | |
| | End cap style | Double Open Ended Spring/Extension Finned/222 O-ring Finned/Extension 222 O-ring/Closed | 222 O-ring/Spring Spring Extension 226 O-ring/Closed Finned/226 O-ring |
| | End caps & cores | Polyester Polypropylene | Carbon Steel Stainless Steel |
| | Temperature | 240-degree F for Polyester | 180-degree F for Polypropylene |
| | Common Applications | Condensate, Amine & Glycol Acids & Alkali, Solvents Catalyst Disposal Injection & Lubricants Inks, Adhesives, Fabric Coatings, Paints, Dyes | Product Polishing Bulk Chemical Filtration Bottled Water Beer Filtration (resin trap) Pulp & Paper Waste Water |

Other configurations, micron ratings and options available. **Contact Jonell Systems to discuss your unique needs.**

Nomenclature

| Product Line | | Diameter | | Nominal Length | | Micron Rating | | Efficiency | | Gasket | | End Cap Style | | Spring/Extensions | | End Cap | | Core | |
|--------------|---------------|----------|--------|----------------|--------|--|--------|------------|--------|--------|-------------------|---------------|-------------------|-------------------|-------------------|---------|-----------------|-------|-------------|
| Code | Description | Code | Descr. | Code | Descr. | Code | Descr. | Code | Descr. | Code | Description | Code | Description | Code | Description | Code | Description | Code | Description |
| JLPE | Polyester | 25 | 2.50" | 36 | 36.00" | 05 | 5μ | F | 99.9% | B | Buna-N | D | DOE | 1 | Carbon Steel / NA | S | Stainless Steel | C | Core |
| JLPP | Polypropylene | 27 | 2.750" | 19 | 19.50" | 10 | 10μ | F | 90% | E | Spring/Extension | O | 222 O-ring/Closed | M | Tin Plated Steel | Blank | Same as media | Blank | No Core |
| | | 3 | 3.00" | 20 | 20.00" | 25 | 25μ | | | K | Finned/Extension | R | 222 O-ring/Spring | S | Spring | | | | |
| | | 6 | 6.00" | 29 | 29.25" | 40 | 40μ | | | X | Extension | Y | 226 O-ring/Closed | X | Extension | | | | |
| | | | | 30 | 30.00" | 50 | 50μ* | | | Y | 226 O-ring/Closed | Z | Finned/226 O-ring | Y | 226 O-ring/Closed | | | | |
| | | | | 36 | 36.00" | 60 | 60μ* | | | Z | Finned/226 O-ring | | | Z | Finned/226 O-ring | | | | |
| | | | | 40 | 40.00" | 75 | 75μ* | | | | | | | | | | | | |
| | | | | 47 | 47.00" | *Available only in Polyester configuration | | | | | | | | | | | | | |
| | | | | 60 | 60.00" | | | | | | | | | | | | | | |

About us

Jonell Systems, a Filtration Group brand, partners with oil, gas and energy companies worldwide to address end to end filtration challenges to improve process safety, reliability, productivity and ultimately profitability. With a wide range of vessels and cartridges with multiple media options, we have solutions to make the world safer, healthier and more productive.

