

JLPE 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 in to filter solid and semi solid contaminants in refineries, chemical applications, food & beverage and a range of general industrial applications.


TRI-SHiELD cartridges have superior filtration performance when compared to resin bonded, melt blown, string wound and sock filters in liquid applications.

Features and benefits

- The blend of Tri-Lobal and cylindrical fibers in combination with the engineered gradient depth all in the same media matrix provides superior dirt loading compared to conventional depth cartridges.
- The media is thermally bonded only once while it is being spiral wound into a cartridge to maximize void open spaces in the media matrix.
- Media layers can be customized for challenging applications and multiple surface coating options provide filtration flexibility.
- They come with several types of end caps and in both polyester and polypropylene media to suit a vast application range.
- Textured cartridge with a coarse finish designed to improve filtration performance.



Specifications

| Products | Specifications | Liquid Particulate Cartridge | | |
|---|---------------------|--|---|--|
|  | Diameter | 2.50", 2.750", 3.00" | | |
| | Nominal Lengths | 9.75", 10", 19.5", 20", 29.25", 30", 36", 40", 47", 72" | | |
| | Media type | Depth Style Polyester | Depth Style Polypropylene | |
| | Gasket | No Gasket (Double open-ended elements do not use end caps or gaskets) Buna-N | EPR Viton TES | |
| | Micron Range | 1μ to 150μ | | |
| | 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 | 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 | | End Cap / Cores | |
|--------------|---------------|----------|----------|----------------|----------|---------------|----------|------------|----------|--------|-------------|---------------|-------------------|-----------------|------------------|
| Code | Description | Code | Descrip. | Code | Descrip. | Code | Descrip. | Code | Descrip. | Code | Description | Code | Description | Code | Description |
| JLPE | Polyester | 25 | 2.50" | 09 | 9.75" | 01 | 1μ | B | 99.9% | Blank | No Gasket* | D | DOE* | E | Polyester |
| JLPP | Polypropylene | 27 | 2.750" | 10 | 10.00" | 05 | 5μ | F | 90% | B | Buna-N | E | Spring/Extension | P | Polypropylene |
| | | 3 | 3.00" | 19 | 19.50" | 10 | 10μ | | | E | EPR | F | Finned/222 O-ring | M | Tin Plated Steel |
| | | | | 20 | 20.00" | 25 | 25μ | | | V | Viton | K | Finned/Extension | S | Stainless Steel |
| | | | | 29 | 29.25" | 40 | 40μ | | | T | TES | O | 222 O-ring/Closed | | |
| | | | | 30 | 30.00" | 60 | 60μ | | | | | R | 222 O-ring/Spring | | |
| | | | | 36 | 36.00" | 100 | 100μ | | | | | S | Spring | | |
| | | | | 40 | 40.00" | 125 | 125μ | | | | | X | Extension | | |
| | | | | 47 | 47.00" | 150 | 150μ | | | | | Y | 226 O-ring/Closed | | |
| | | | | 72 | 72.00" | | | | | | | Z | Finned/226 O-ring | | |

* Double Open Ended elements do not use end caps or gaskets

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.