



### **Wound Filter Cartridges - Glass Fiber**

GPS Wound Depth Glass Fiber Filter Cartridges have broad chemical compatibility with many different fluids and also have excellent resistance to microorganisms. They have a maximum operating temperature of 300°C.

Traces of oil sizing removed by heat treating, yielding virgin glass fiber. Recommended for high temperature and high corrosion applications.

All GPS Glass fiber wound Cartridges provide true depth filtration through hundreds of tapered filtering passages of controlled size and shape. The diagonal winding of roving on a center core makes a firm interlocking weave that results in a cartridge that prevents channeling and by passing, and greatly reduces fiber migration. As the cartridge is wound, each layer of roving is napped to increase filtration capabilities. As a result, each layer of roving adds its contribution to true depth filtration by trapping its share of particles. In addition, the irregular outer surface helps prevent surface blinding and helps to assure longer cartridge life and full cartridge utilization. Wound cartridges offer a gradual pressure increase during cartridge life versus surface-type media that have an abrupt flow cut-off when loaded.

### **Wound Filter Cartridges - Glass Fiber**

- Oxalic Acid
- Phosphoric Acid
- Sulfuric Acid
- Oxidizing Agent
- Sodium Cyanide
- Nitric Acid
- Organic Solvent
- Oils
- Organic Acids
- Strong Acids
- Dilute Acid

### **Wound Filter Cartridges - Glass Fiber Materials**

- Filtering Medium: Glass Fiber
- Core: SS304, SS316

## Removal Ratings

- 0.5µm, 1 µm, 5 µm, 10 µm, 20 µm, 50 µm and custom ratings

## Dimensions

### Standard Cartridge:

- Lengths: 10" / 254 mm, 20" / 508 mm, 30" / 762 mm, 40" / 1016 mm
- Out side Diameter: 63.5 mm
- In Side Diameter: 28 mm

### Jumbo Cartridge:

- Lengths: 10" / 254 mm, 20" / 508 mm, 30" / 762 mm
- Out side Diameter: 116 mm
- In Side Diameter: 28 mm

### Effective Surface Area:

- Standard Cartridge: 0.05 m<sup>2</sup>/10"
- Jumbo Cartridge: 0.09 m<sup>2</sup>/10"

## Operating Conditions

- Maximum temperature: 300<sup>0</sup>C
- Maximum Forward Pressure: 4.1 kg/cm<sup>2</sup>
- Maximum differential pressure: 1.1 bar

## Wound Filter Cartridges - Glass Fiber

Item Code	Size	Length	Micron	Support Core
WGS	ST – Standard	L1 – 10"	M0 – 0.5 Micron	CS – SS 304
	JU – Jumbo	L2 – 20"	M1 – 1 Micron	CSS – SS 316
		L3 – 30"	M2 – 5 Micron	
		L4 – 40"	M3 – 10 Micron	
			M4 – 20 Micron	
			M5 – 50 Micron	

NOTE: L4 – 40" Length is not available in Jumbo Size.