

# Z.Plex\* Filter Technology

## A Revolutionary Technology for Depth Filtration

### Description and Use

The Z.Plex technology product line includes a complete range of depth filter products with variable micron level filtration, efficiency values and cartridge lengths for a wide range of industrial, commercial and residential applications.

### Typical Applications

GE Water & Process Technologies' Z.Plex technology produces superior melt blown graded density filters engineered to specific applications, such as:

- Specialty Coatings
- Deep Well Injection
- Residential Water
- RO Pretreatment
- Electronics Manufacture
- Healthcare Applications
- Beverage Processing

### General Properties

#### Z-Fiber; Engineered Fiber Matrix

- Longer Life
- Stronger Filter
- Reduced Operating Cost
- Less Change Out Labor or Downtime

#### Z.Plex Technology Flexibility

- Optimized Performance
- Wide Range of Efficiencies
- Tailored to Specific Application Requirements

#### Enhanced Shell and Core

- No Extraneous Fibers to Enter Filter Stream

- Non Loading
- Non Shedding
- Clean Appearance
- Bulk Pack Option

#### Lower Pressure Drop

- Less Energy Used
- Longer Run Time
- Longer Life

#### All Polypropylene

- Purity of Media
- Wide Chemical Resistance
- FDA Compliant Media

#### Graded Density

- Built in Prefilter
- Optimized Depth Filter Loading
- Removal of Wide Cross Section of Contaminates

#### Increased Void Volume

- Greater Dirt Holding Capacity
- Longer Life

#### Lower Filter Mass

- Lower Shipping Costs
- Lower Disposal Costs

#### Integral Support Core

- Increased Filter Area
- Ease of Disposal

Z.Plex technology manufactured filters are available in different grades to match the requirements



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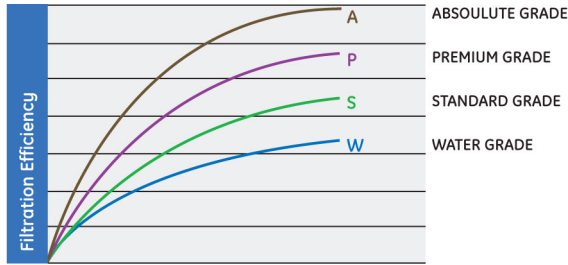
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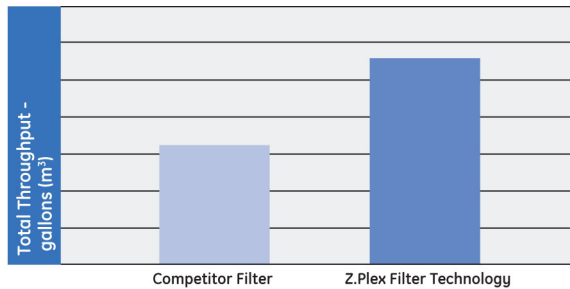
of each application – from common sediment filters to absolute filtration. (Table 1)

**Table 1: Z.Plex Technology Flexibility**



Z.Plex technology manufactured filters deliver almost twice the throughput of competitive filters (Table 2). The filters achieve this superior performance through a combination of higher dirt holding capacity and low pressure drop.

**Table 2: Flow Performance of Z.Plex Technology vs. Competitor**



GE is one of the world’s largest integrated manufacturers of fluid treatment equipment, filters, membranes and components for the industrial, commercial, institutional and residential markets. Featuring an extensive distribution organization, GE also provides high-quality components to original equipment manufacturers (OEMs) for water treatment and process applications.

With sales offices throughout the United States and international offices around the world, GE delivers filtration and purification solutions on a global scale.