GRU-V Series Resin Bonded

The unique manufacturing process of GRU-V filter elements produces a rigid fixed-matrix structure with true graded-porosity. This maximizes contaminant-holding capacity while preventing the unloading behavior that is often problematic in competitive products. The grooved outer surface greatly expands the filter’s effective surface area and further increases the contaminant holding capacity. The synthetic fiber/phenolic resin binder offers well-proven performance operating under challenging conditions of high temperatures, high fluid viscosities, and high differential pressures. The GRU-V is ideal for paints, coatings, oils, and many other demanding applications.

Flow Rate vs Pressure Drop

**Dimensions**

- **Lengths**: 9.75 to 40 inches (24.77 to 101.6 cm)
- **Outside Diameter**: 2.56 inches (6.50 cm)
- **Inside Diameter**: 1.06 inches (2.69 cm)

**Construction Materials**

Polyester & acrylic fibers with phenolic resin encapsulation.

**Features**

- Micron ratings from 2 to 150
- True graded-porosity structure for high dirt holding
- Broad chemical compatibility
- Rigid construction ideal for high viscosity uses
- High temperature resistance

**Operating Conditions**

- **Maximum Operating Temperature**
  - Standard DOE: 250°F (121°C)
  - w/ Polypropylene Spring or Core Extender: 180°F (82°C)
  - High Temperature DOE (HT): 300°F (149°C)
  - w/ Stainless Steel Core Extender (HT): 300°F (149°C)
- **Maximum Operating Differential Pressure**
  - 90 PSID at 150°F (65°C)
- **Recommended Change-out Differential Pressure**
  - 35 PSID

**Typical Applications**

- Coatings
- Epoxies
- Adhesives
- Sealants
- Hydraulic Fluids
- Lubricating Oils
- Greases
- Paints
- Inks

**Ordering Information**

<table>
<thead>
<tr>
<th>GRU-V</th>
<th>Rating (µ)</th>
<th>N</th>
<th>Length (µm)</th>
<th>Option</th>
<th>End Cap Style</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>9.75</td>
<td></td>
<td>(24.77)</td>
<td>Blank = Standard</td>
<td>Blank = No End Configuration (DOE)</td>
<td>B = Micron Brand</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td></td>
<td>(25.40)</td>
<td>HT = High Temp</td>
<td>9 = SOE w/Poly Spring</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>19.5</td>
<td></td>
<td>(49.53)</td>
<td>10 = DOE w/Poly Core Ext.</td>
<td>10X = Stainless Steel Core Ext.</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>20</td>
<td></td>
<td>(50.80)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>29.25</td>
<td></td>
<td>(74.26)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>30</td>
<td></td>
<td>(76.20)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>39</td>
<td></td>
<td>(99.06)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>40</td>
<td></td>
<td>(101.60)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DISCLAIMER**: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required.