Discover Advanced Solutions with Corning® DuraTrap® Filters

- Best-in-class technical expertise from the company that pioneered emissions control systems worldwide
- Extensive product range to address tightening global standards
- Portfolio and attributes enable a wide range of after-treatment engineering solutions
- Innovative monolithic structure optimizes space utilization

Applications
For heavy-duty on-road and non-road diesel vehicles such as trucks, construction equipment, and agricultural equipment

Design Characteristics
Corning DuraTrap AT and AC filters are designed for the highest level of performance.

- Controlled porosity and mean pore size, plus thin-wall product options, enable high filtration efficiency
- Low expansion and low thermal conductivity provide excellent regeneration performance as well as long-term durability
- Pressure drop performance is enhanced by tailored filter geometry and microstructure attributes
- Large frontal area (LFA) options can improve performance by lowering back pressure and increasing geometric surface area
- Corning’s innovative asymmetric cell technology (ACT) provides ash storage benefits and can help manage lifetime pressure drop requirements

Product Attributes

<table>
<thead>
<tr>
<th>Description</th>
<th>Corning DuraTrap AC</th>
<th>Corning DuraTrap AT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monolithic Structure</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Nominal CTE [RT-800°C, x10^{-7}1/°C]</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Nominal Intrinsic Density [g/cm^3]</td>
<td>2.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Nominal Porosity [%]</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Nominal Median Pore Size [µm]</td>
<td>19</td>
<td>15</td>
</tr>
</tbody>
</table>

Asymmetric Cell Technology

**Symmetric**
Inlet, outlet same size

**Asymmetric (ACT)**
Larger inlet, smaller outlet

Setting the standard for clean diesel.
Corning’s broad portfolio of heavy-duty diesel particulate filters can help you meet even the most challenging emissions standards. A proven solution, Corning’s filters have been used in millions of vehicles. An innovative, monolithic design is the hallmark of our product family.

Product Information

DuraTrap® Filters
Heavy-duty diesel
**Corning® DuraTrap® Filters for Heavy-Duty Diesel Engines**

**High ash storage capacity**

<table>
<thead>
<tr>
<th>Ash Load Relative to AC 200/12 (g)</th>
<th>Δp based at equal volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 200/12</td>
<td></td>
</tr>
<tr>
<td>AC 300/9 ACT</td>
<td></td>
</tr>
<tr>
<td>AT 300/9 ACT</td>
<td></td>
</tr>
<tr>
<td>AT 300/12 ACT</td>
<td></td>
</tr>
<tr>
<td>SIC 300/10 Ash Storage</td>
<td></td>
</tr>
<tr>
<td>SIC 300/10</td>
<td></td>
</tr>
</tbody>
</table>

Our monolithic design helps improve ash storage capacity.

**Excellent filtration efficiency**

<table>
<thead>
<tr>
<th>Euro VI WHSC limit: 8E11#/kW.h</th>
<th>Euro VI WHTC limit: 6E11#/kW.h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composite WHTC WHSC</td>
<td></td>
</tr>
</tbody>
</table>

Particle number filtration meets stringent global standards.

**DuraTrap AC filters set the standard for pressure drop**

Our AC filters offer low back pressure while contributing to low overall system and operating costs.

**DuraTrap AT products offer superior pressure drop**

Our AT filters show pressure drop benefits over commercially available silicon carbide products with similar catalysts.

**AT maintains robustness under severe conditions**

PM emissions remained significantly below the target for all AT filters. Parts tested hundreds of times over >2000 total cycles.

**CORNING**

Contact us today to learn more.

Environmental@corning.com

www.corning.com/EnvironmentalTechnologies

The charts and graphs used in this publication are based on data from experimental and limited tests conducted under controlled laboratory conditions, measurements, and calculations sponsored by Corning. Corning can provide additional calculations or test results based on specific operating conditions.

Corning and DuraTrap are registered trademarks of Corning Incorporated.

© 2015 Corning Incorporated. All Rights Reserved.