Product Information

Benefits
Corning builds on more than 40 years of ceramic material and process knowledge with its fast light-off substrates. Through a unique material design that significantly reduces mass, FLORA™ substrates can reach operating temperature more quickly than our standard Celcor® substrates to lower cold-start emissions. Discover best-in-class technical expertise from the company that invented cellular ceramic substrates and sets the standard for catalytic converters worldwide.

- Excellent time to light-off performance to meet stringent HC emissions requirements
- Designed to facilitate on-wall coating to help maximize catalytic performance
- Can lower system cost by reducing precious metal use
- Improves fuel efficiency

Applications
- Close-coupled for light-duty gasoline
- DOC and LNT for light-duty diesel

Product Attributes

<table>
<thead>
<tr>
<th>Product [cpsi/web]</th>
<th>Open Frontal Area [%]</th>
<th>Back Pressure (^1) [kPa]</th>
<th>Time to light-off (^2) [s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celcor 600/3</td>
<td>83.6</td>
<td>2.0</td>
<td>55.5</td>
</tr>
<tr>
<td>FLORA 600/3</td>
<td>83.6</td>
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<tr>
<td>Celcor 750/2</td>
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<td>2.4</td>
<td>55.3</td>
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<tr>
<td>Celcor 600/2</td>
<td>88.1</td>
<td>1.8</td>
<td>51.5</td>
</tr>
<tr>
<td>FLORA 600/2</td>
<td>88.1</td>
<td>1.8</td>
<td>36.7</td>
</tr>
</tbody>
</table>

\(^1\) Calculated on bare 188.41 x 73 mm part at 200 kg/hr ~ 800°C
\(^2\) Calculated on bare 188.41 x 73 mm part

Cumulative HC Emissions

Engine bench testing on substrate in close-coupled position with production coating

Fast light-off substrates significantly reduce cumulative hydrocarbon emissions compared to standard substrates.

Geometric Surface Area / Light-off

Based on 0.8 L substrate volume
Parts tested at size 118.41 x 73 mm
Discover Advanced Solutions with Corning Substrates

Contact us today to learn how Corning’s extensive portfolio of advanced ceramic solutions can help you meet your most demanding system needs.

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