BASF Catalyst O4-85

Honeycomb Catalysts for DeNOx by SCR

A part of the range of geometries available in BASF’s standard honeycomb is indicated in the table below. The $\text{V}_2\text{O}_5$ concentration, also a variable, is tailored to the actual flue gas composition and performance requirements for each application.

Nomenclature is explained by the following example:

**BASF O4-85 Type 899 / G / 060**

- **Type 899** specifies the pitch, according to the geometric surface area
- **G** designates non-coal-fired applications (for coal-fired, would show “K”)
- **060** indicates the catalyst activity

### Honeycomb Dimensions for BASF Catalyst O4-85 Series

<table>
<thead>
<tr>
<th>Geometric Surface (m²/m³)</th>
<th>Cell Array</th>
<th>Cells per Square Inch (cpsi)</th>
<th>Nominal Pitch (mm)</th>
<th>Size of Openings (mm)</th>
<th>Open Area (%)</th>
<th>Face Dimensions (mm)</th>
<th>Wall Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>455</td>
<td>20 x 20</td>
<td>11.5</td>
<td>7.4</td>
<td>6.40</td>
<td>72.8</td>
<td>150 x 150</td>
<td>1.00</td>
</tr>
<tr>
<td>475</td>
<td>21 x 21</td>
<td>12.7</td>
<td>7.0</td>
<td>6.06</td>
<td>72.0</td>
<td>150 x 150</td>
<td>1.00</td>
</tr>
<tr>
<td>493</td>
<td>22 x 22</td>
<td>13.9</td>
<td>6.7</td>
<td>5.73</td>
<td>70.6</td>
<td>150 x 150</td>
<td>1.00</td>
</tr>
<tr>
<td>570</td>
<td>25 x 25</td>
<td>17.9</td>
<td>5.9</td>
<td>5.16</td>
<td>74.0</td>
<td>150 x 150</td>
<td>0.75</td>
</tr>
<tr>
<td>686</td>
<td>30 x 30</td>
<td>25.8</td>
<td>4.9</td>
<td>4.29</td>
<td>73.6</td>
<td>150 x 150</td>
<td>0.65</td>
</tr>
<tr>
<td>801</td>
<td>35 x 35</td>
<td>35.1</td>
<td>4.2</td>
<td>3.68</td>
<td>73.7</td>
<td>150 x 150</td>
<td>0.55</td>
</tr>
<tr>
<td>899</td>
<td>40 x 40</td>
<td>45.9</td>
<td>3.7</td>
<td>3.16</td>
<td>71.0</td>
<td>150 x 150</td>
<td>0.55</td>
</tr>
<tr>
<td>1142</td>
<td>50 x 50</td>
<td>71.7</td>
<td>3.0</td>
<td>2.57</td>
<td>73.3</td>
<td>150 x 150</td>
<td>0.40</td>
</tr>
</tbody>
</table>

**Note 1:** Pitch is calculated as opening size plus internal wall thickness.
**Note 2:** Wall thickness given above is for internal walls; external wall thickness is slightly greater.
**Note 3:** Additional, non-standard types (e.g. pitch sizes not shown in table above) are available or can be produced for special requirements.
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