CORNING

Corning® Celcor® LFA Substrates

Setting the standard for clean heavy-duty diesel vehicles

Corning's product line of large frontal area (LFA) substrates delivers reliable performance under the demanding conditions of day-to-day diesel operations. With a selection of back pressure and geometric surface area combinations, our advanced substrates enhance system performance. We offer best-in-class technical expertise for heavy-duty on-road and non-road diesel applications, such as trucks, buses, construction, and agricultural equipment.

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Corning® Celcor® LFA Substrates

Celcor LFA substrates offer several advantages for our customers to meet tightening global emissions standards:

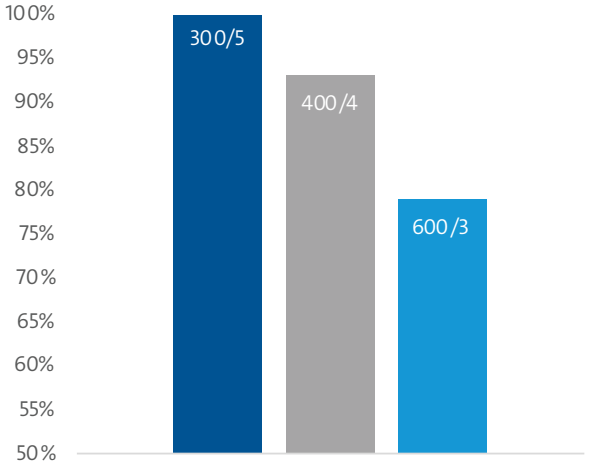
- Thin wall technology to reduce system backpressure
- Precise porosity control to ensure proper wash coat application and adhesion
- Mechanical strength to withstand system assembly loads as well as in-use vibrations and shock
- Thermal management properties that ensure durability even in temperature extremes

Product Highlights

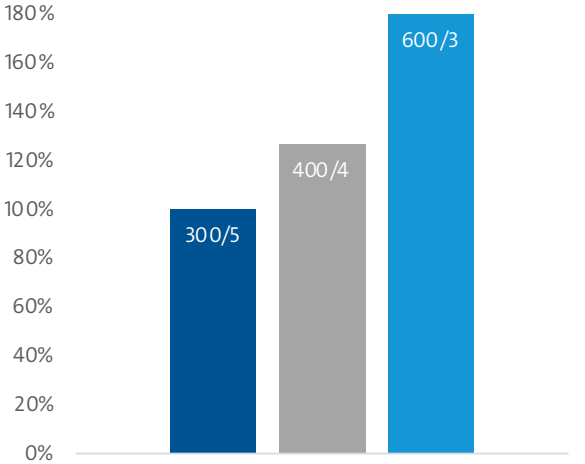
Corning® Celcor® LFA 300/5 substrates
- Best-in-class pressure drop performance
- Form flexibility, round vs. oval

Corning® Celcor® LFA 400/4 substrates
- Balances pressure drop performance with emissions conversion efficiency

Corning® Celcor® LFA 600/3 substrates
- Higher surface area for most efficient (NOx) emissions conversion efficiency
- Opportunity for downsizing to achieve savings or fit tight packaging constraints



Relative Modeled NOx Emissions



Relative Backpressure

Thin-wall Products [cpsi/web]	Bulk Density [g/L]	Open Frontal Area [%]	Geometric Surface Area [cm^2/cm^3]	Hydraulic Diameter [mm]	Isostatic Strength [bar]
300/5	294	81.9	24.7	1.33	>10
400/4	279	82.8	28.7	1.16	>10
600/3	267	83.6	35.3	0.95	>10

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

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