

A close-up photograph of a green car's rear taillight, showing its red and clear lenses. The car is parked on a paved road that curves into the distance. In the background, there are rolling green hills and a clear sky. The overall scene is bright and scenic.

New Standards. Proven Solutions.

CORNING

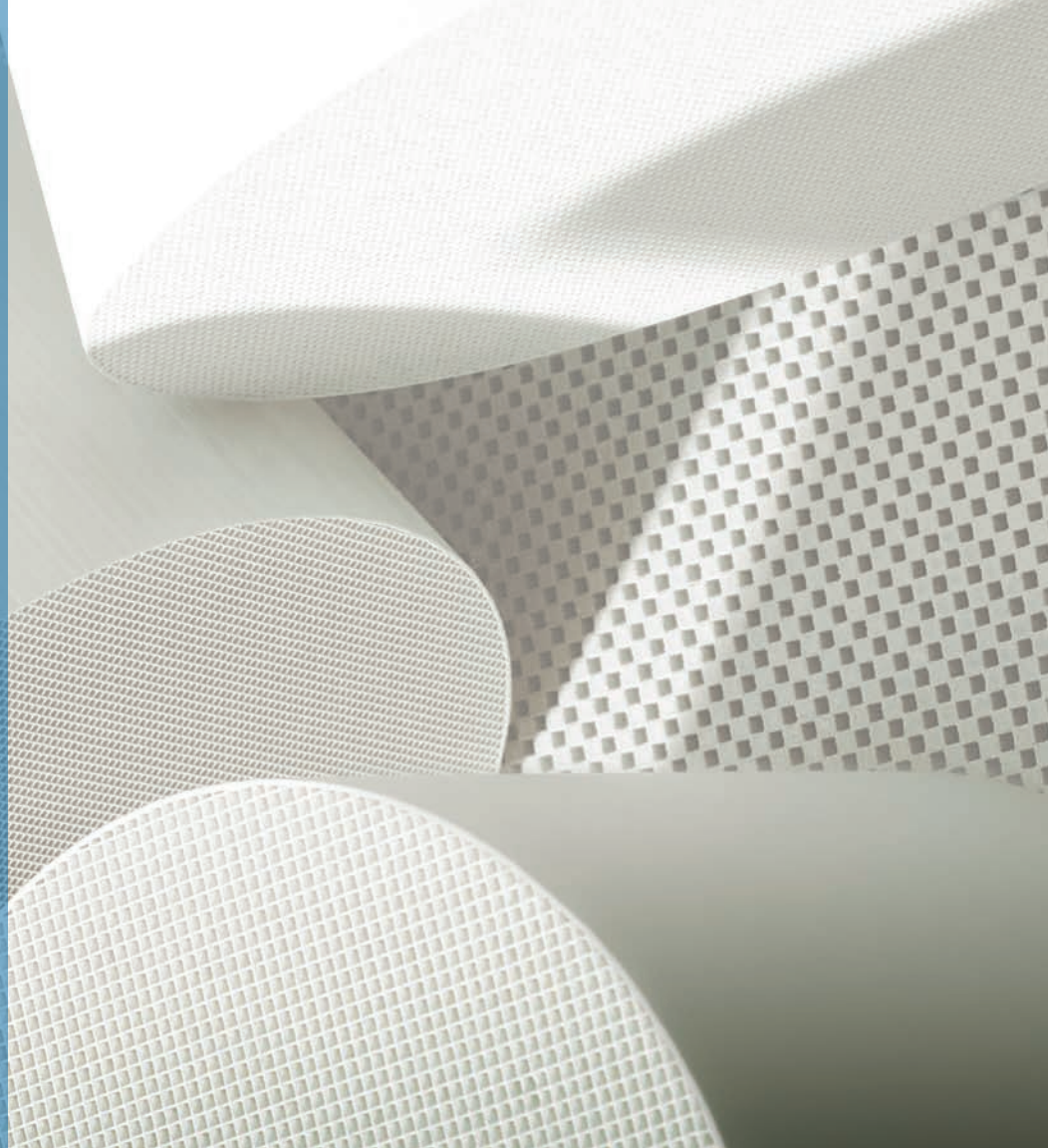
Environmental
Technologies

About Environmental Technologies

Corning brought its ceramic materials and process expertise to the campaign for cleaner air in the early 1970s, and we've been setting the standard for emissions control ever since.

We invented the first cellular ceramic substrate and now develop emissions-control products for the world's major manufacturers of gasoline and diesel-powered engines and vehicles. Our products also serve new and retrofit stationary emissions-control systems.

As the global concern for clean-air intensifies, Corning's technologies will continue to advance emissions-control solutions.



*Since 1974, Corning has produced
more than 1.5 billion substrates
for automotive emissions control.*



*For gasoline and diesel autos, diesel trucks,
agricultural and construction equipment,
marine vessels, locomotives,
and industrial plants*



Our Products

Corning's extensive product range provides flexibility in meeting tightening global standards. Varied configurations enable a wide range of after-treatment solutions.

Corning® Celcor® substrates:

Standard-wall

Thin-wall

Ultrathin-wall

Large frontal area options

Corning® DuraTrap® filters:

AT (Aluminum titanate)

AC (Advanced cordierite)

GC (Gasoline-optimized cordierite)

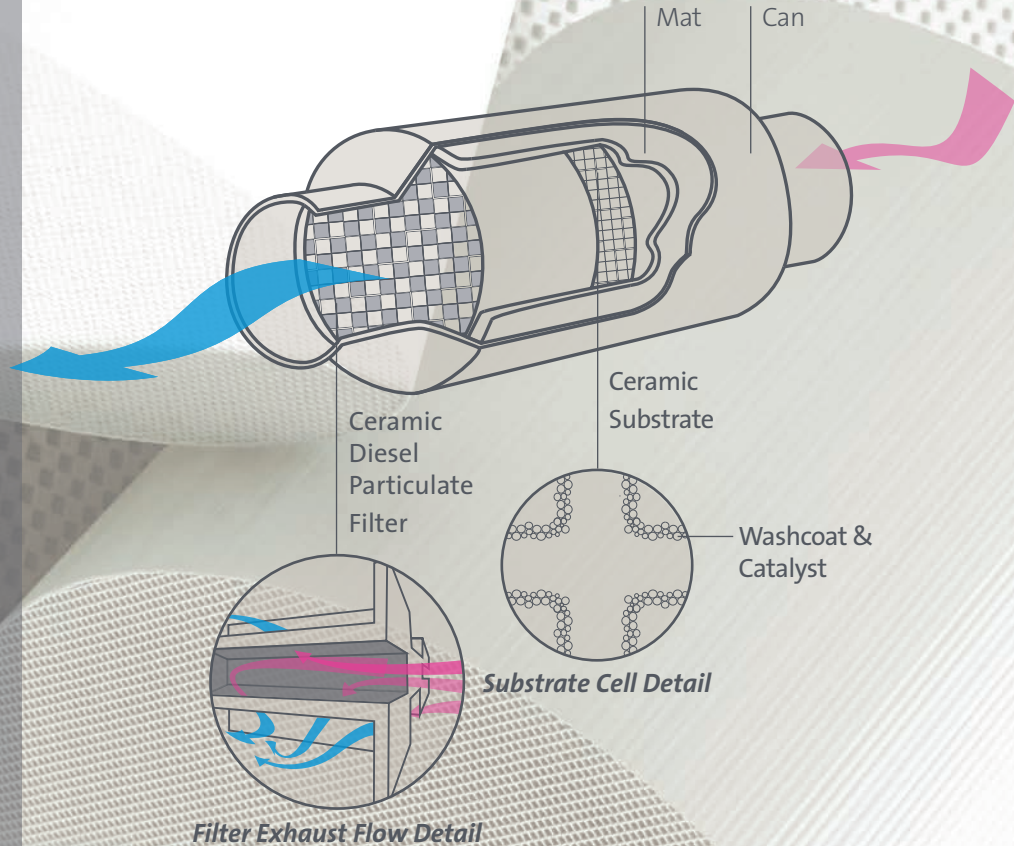
Filters with asymmetric cell technology are available for increased ash storage capabilities and efficient regeneration.


Our Technology

Our Celcor substrates and DuraTrap filters are at the heart of emissions-control systems.

Corning's substrate technology features thousands of thin-walled parallel channels, up to 900 per square inch, that are coated with a precious metal mixture. As gasoline or diesel vehicle exhaust passes through the channels, a chemical reaction turns toxic and smog-causing elements into harmless gases and water vapor.

In a filter, alternate channels are plugged to force diesel vehicle exhaust through porous walls. Soot particles build up on the filter's walls. Periodic heating, known as regeneration, cleans out the soot.





*A catalyzed substrate the size
of a soft drink can is capable of
providing an effective surface
greater than the size of a soccer field.*

*Corning filters capture
99% of soot particles.*



Research and Development

Corning's commitment to research and development drives our ability to turn possibilities into breakthrough realities.

Our renowned laboratory and research facilities attract and enable the world's best scientific minds. Corning's state-of-the-art resources, multi-disciplined materials expertise, and dedicated technology leadership help foster our collaborative culture at every innovation phase.

Engineering and Design Services

Our design and engineering services help customers optimize system performance and manage overall cost by leveraging our experience, resources, and capabilities in:

Modeling
Prototyping
Simulating

Lab and field testing
System support

*Corning holds more than 600
environmental technology patents.*





*Corning has invested more than
\$2 billion in its clean-air business.*

Manufacturing

Corning's six leading-edge manufacturing facilities provide consistent and reliable supply to customers around the world.

We are committed to bringing world-class products and services to customers through rigorous quality systems. Corning strives for continuous improvement of our entire range of products and processes.

With worldwide locations, Corning strives to meet our global customers' demands.



About Corning

As the world leader in specialty glass and ceramics, Corning invents, makes, and sells keystone components that enable high-technology systems for consumer electronics, mobile emissions control, telecommunications, and life sciences.

Corning succeeds through sustained investment in R&D, more than 160 years of materials science and process engineering knowledge, and a collaborative culture.

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