Керамические сажевые фильтры DuraTrap
Технические характеристики

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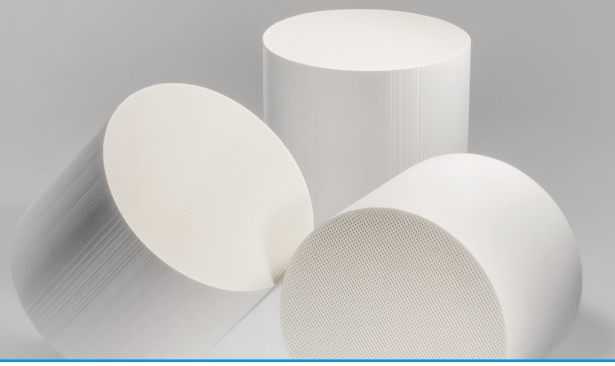
Россия +7(495)268-04-70
Киргизия +996(312)-96-26-47
Казахстан +7(7172)727-132

cga@nt-rt.ru || https://corning.nt-rt.ru/

CORNING

DuraTrap® AT Filters

For proven performance in light-duty diesel systems

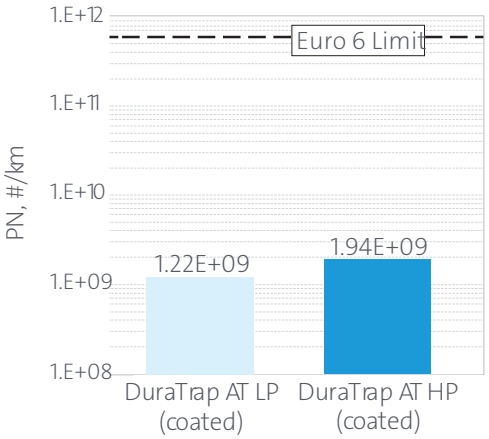


Vehicle and engine manufacturers worldwide are striving to improve the fuel efficiency and performance of diesel engines while meeting NOx, particulate mass and particulate number emissions limits under real-world driving conditions. Integrating SCR catalysts on our line of Corning® DuraTrap® AT diesel particulate filters is a leading approach to meet these challenges.

Products with Proven Performance

	DuraTrap® AT (low porosity product line)	DuraTrap® AT HP (high porosity product line)
Porosity	~45%	~59%
Median Pore Size	13-15 µm	17-19 µm
Microstructure Designed For	Typical oxidation catalyst coatings	Typical SCR catalyst coatings

Excellent Filtration Efficiency



Particle number filtration efficiency for Corning DuraTrap AT HP filters is in line with current generation DuraTrap AT LP filters. Corning's diesel particulate filters are commercialized in several applications including most stringent Euro 6d regulations.

Corning DuraTrap® AT LP filters

The low porosity and optimized microstructure enables product designs which support better fuel economy, lower CO_2 emissions, and higher engine performance. At the same time, the filters maintain thermal and mechanical robustness allowing for high soot mass limits.

Standard Cell Geometry & Sizes:
- 300 cells per square inch
- 10 mil wall thickness
- Wide range of sizes available

Corning DuraTrap® AT HP filters

The particulate filters are designed with higher porosity which allows for low backpressure at high washcoat loads and excellent filtration efficiency under all driving conditions. An optimized microstructure, innovative cell design and a monolithic structure also enable high deNOx performance under a wide range of test conditions.

Standard Cell Geometry & Sizes:
- 350 cells per square inch
- 12 mil wall thickness
- Wide range of sizes available

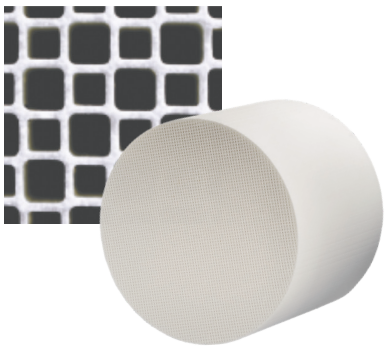
Monolithic Advantage

Corning's aluminum titanate material provides low thermal expansion to enable durable monolithic construction that allows for:

- Low pressure drop and excellent regeneration efficiency to help improve fuel consumption
- Increased ash storage capacity and larger filtration surface area compared to segmented filters

Innovative Design

The extrude to shape monolithic design can be produced in a variety of sizes and optimized for systems with space constraints and diverse configurations. Corning's innovative asymmetric cell technology (ACT) is an option that helps manage lifetime pressure drop requirements and provides ash storage benefits through larger inlet channels.



Asymmetric Cell Technology (ACT): larger inlet, smaller outlet. Unplugged to highlight ACT design. Filters will have alternating plugs.

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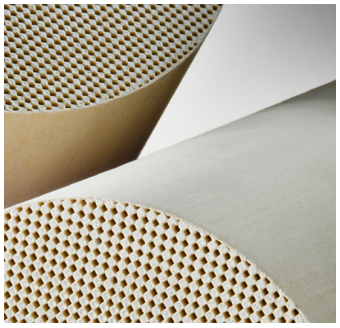


Corning® DuraTrap® GC Filters

Product Information

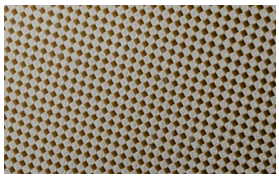
Benefits

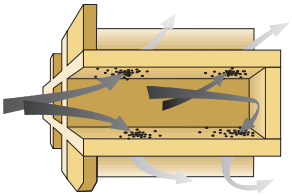
- Best-in-class pressure drop performance to meet tough CO_2 requirements and preserve engine performance
- Allows high washcoat loading at an excellent pressure drop to enable outstanding catalytic performance
- Excellent filtration efficiency
- Strength allows market typical canning technologies

Applications

- Integration across the full spectrum of possible solutions:
  - From close-coupled to underfloor
  - From highly coated to uncoated

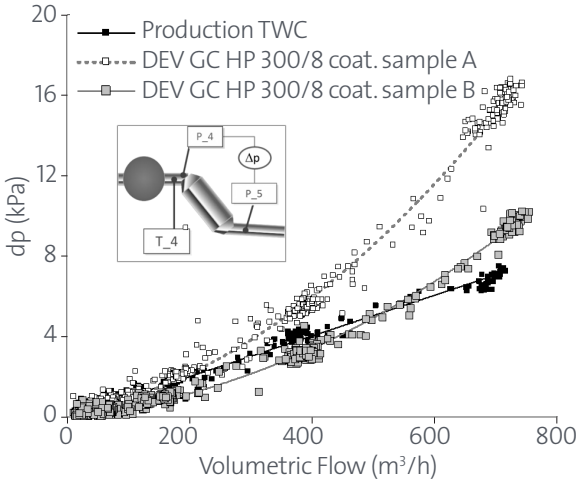
Proven design



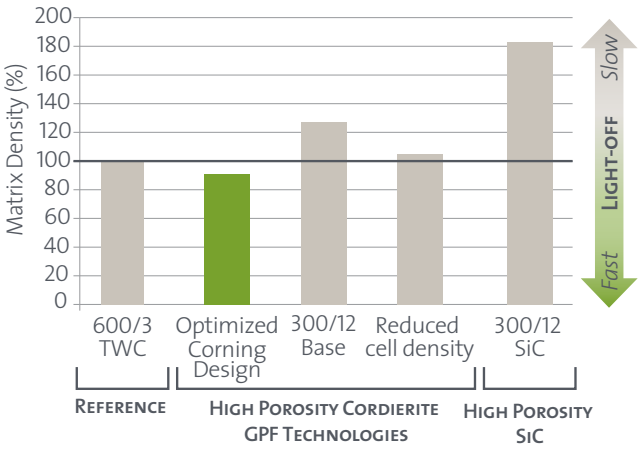


We adapted our successful diesel filter design to meet the needs of gasoline particulate filters. In our product, alternating plugs force air through porous walls that trap soot particles.

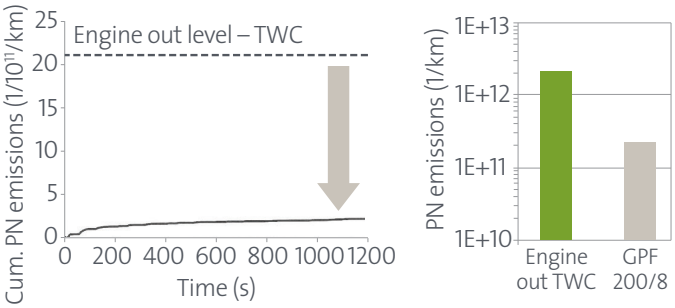
Low backpressure



Fast light-off*



High filtration efficiency



Corning GPFs reduce particulate numbers to meet Euro 6c emissions regulations.

Summary of filter technologies

	DEV GC 200/8	DEV GC HP 300/8
Technology	Dev GC	Dev GC HP
Cell density	200 cpsi	200 cpsi 300 cpsi
Web thickness	8 mil	Optimized
Material	Cordierite	Cordierite
Porosity	Medium	High

*Corning calculated numbers based on published product and material information.

New Standards

Corning® DuraTrap® Filters

Innovative monolithic design. Enhanced durability.
Proven in millions of vehicles.

Meet tomorrow's emissions standards today with Corning® DuraTrap® filters. Designed for high filtration efficiency and excellent pressure drop, our portfolio of filter products is expanding to meet the needs of GDI vehicles facing future real-world-driving emissions regulations.

Our gasoline cordierite filters feature GDI-optimized compositions to meet filtration efficiency, wash coat loading, and pressure drop needs.

Trust 40 years of emissions-control expertise.
Choose Corning

Proven Solutions

Environmental Technologies

CORNING

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

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

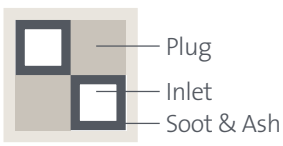
Product Attributes

	Corning DuraTrap AC	Corning DuraTrap AT
Description	Advanced cordierite for lower overall system costs	Aluminum titanate for robustness and durability
Monolithic Structure	Yes	Yes
Nominal CTE [RT-800°C, $x10^{-7}1/°C$]	4	5
Nominal Intrinsic Density [g/cm^3]	2.5	3.5
Nominal Porosity [%]	50	50
Nominal Median Pore Size [µm]	19	15

Asymmetric Cell Technology

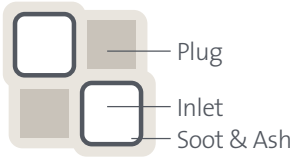
Symmetric

Inlet, outlet same size



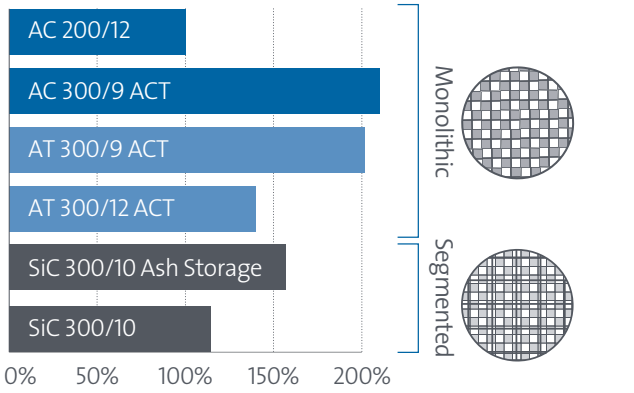
Asymmetric (ACT)

Larger inlet, smaller outlet



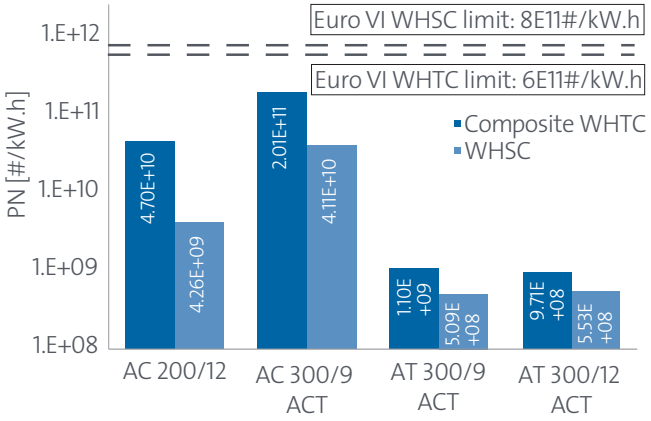
Corning® DuraTrap® Filters for Heavy-Duty Diesel Engines

High ash storage capacity



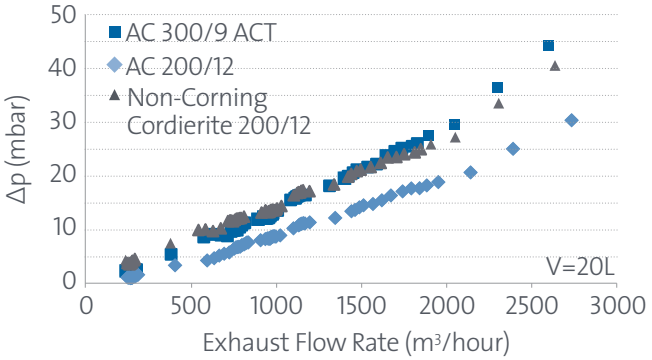
Our monolithic design helps improve ash storage capacity.

Excellent filtration efficiency



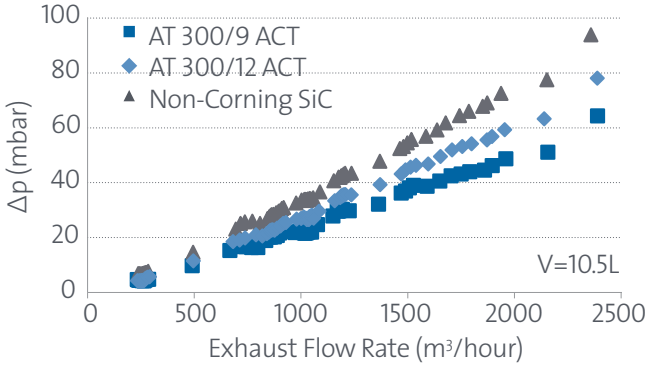
Particle number filtration meets stringent global standards.

DuraTrap AC filters set the standard for pressure drop



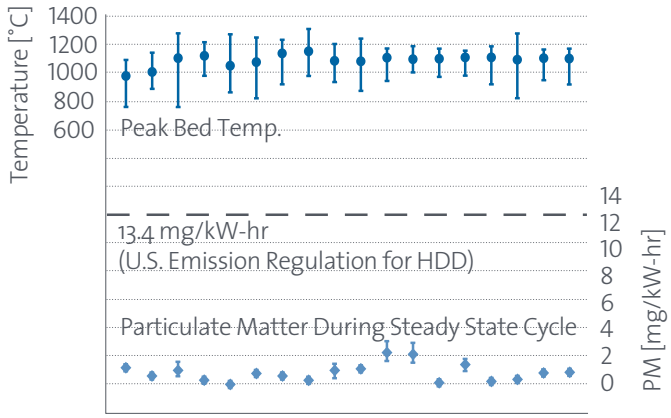
Our AC filters offer low back pressure while contributing to low overall system and operating costs.

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.

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