

Leading the way to a cleaner planet

HOW CORNING PRODUCTS HELP TO ENABLE CLEANER VEHICLE ENGINES

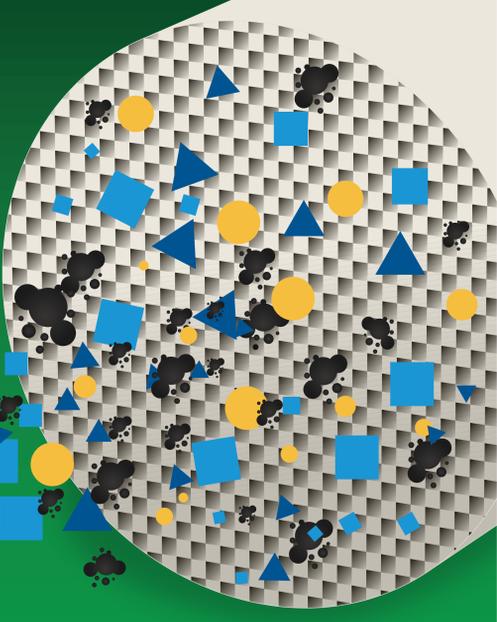
Corning ceramic substrates and particulate filters form the core of world-class pollution control systems. At Corning, we're dedicated to delivering products that help our customers keep the air cleaner and provide consistent, reliable, and durable performance under demanding conditions.



REMOVING POLLUTANTS

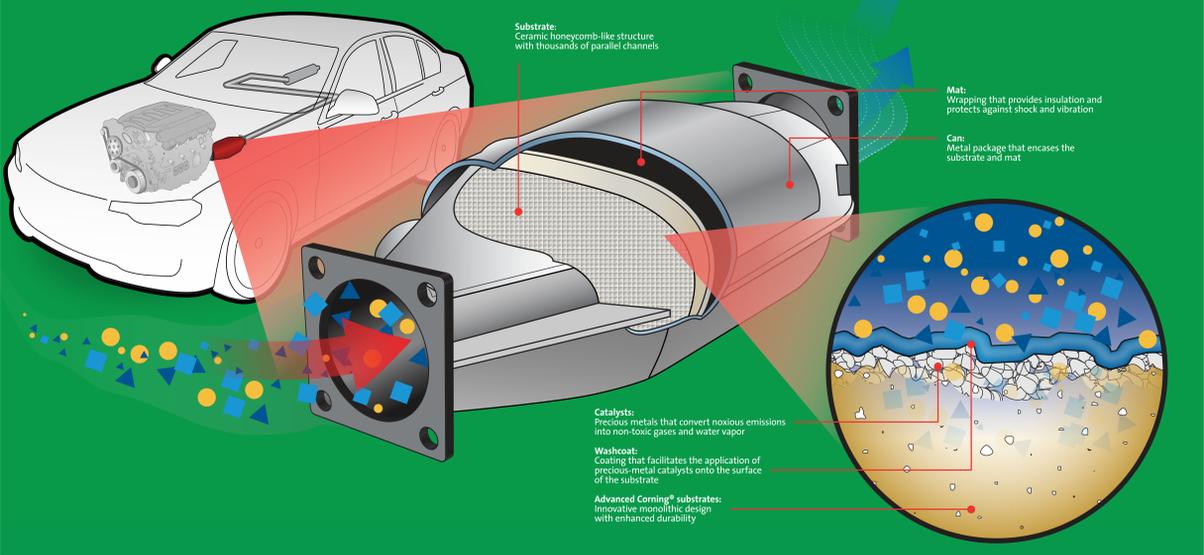
Corning products are built to filter and minimize a number of harmful pollutants.

- **Hydrocarbons** A major contributor to smog
- **Carbon Monoxide** Reduces the blood's ability to carry oxygen
- ▲ **Nitrogen Oxides** Precursor to smog and acid rain
- **Particulate Matter (carbon soot)** Causes negative health effects



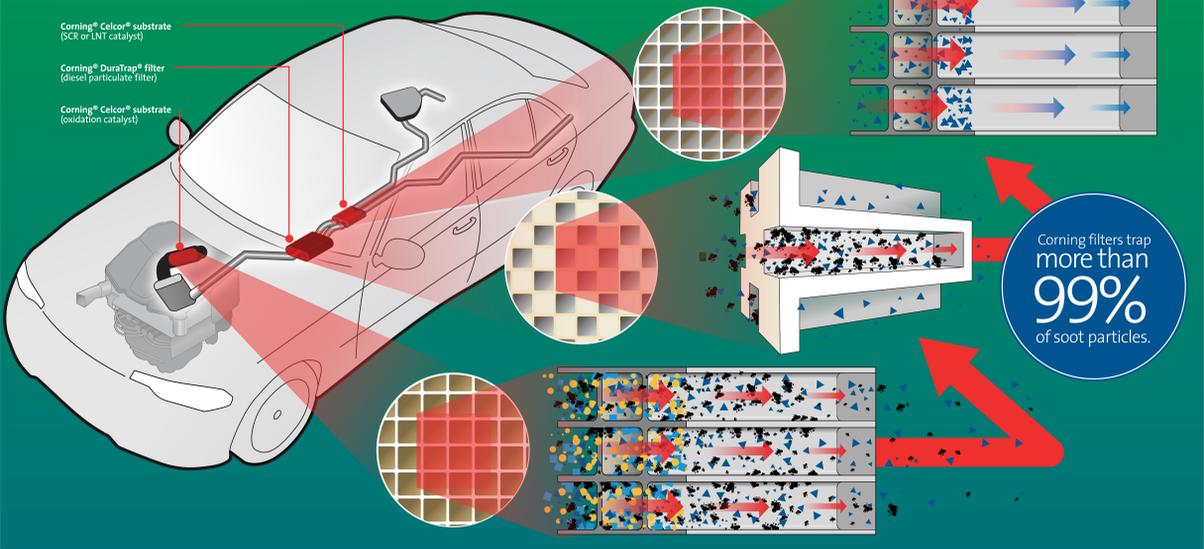
LIGHT-DUTY SYSTEMS FOR GASOLINE VEHICLES

Corning® Celcor® substrates form the heart of the catalytic converter, which turns pollutants into non-toxic gases and water vapor. Corning also produces DuraTrap® GC filters that remove harmful particles from gasoline direct injection (GDI) vehicles and advanced Corning® FLORA® substrates that activate the catalyst 20% faster than standard substrates.



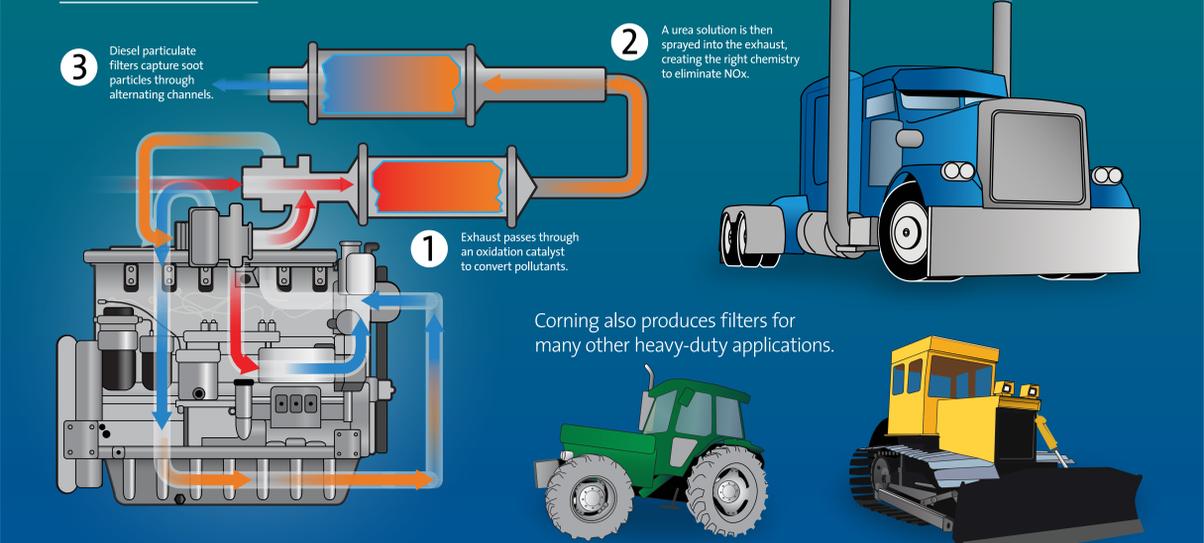
LIGHT-DUTY SYSTEMS FOR DIESEL VEHICLES

Available in a variety of material compositions and sizes, Corning® DuraTrap® filters capture trillions of soot particles exiting the engine per second. They work in harmony with other components of the emissions control system.



HEAVY-DUTY VEHICLE SYSTEMS

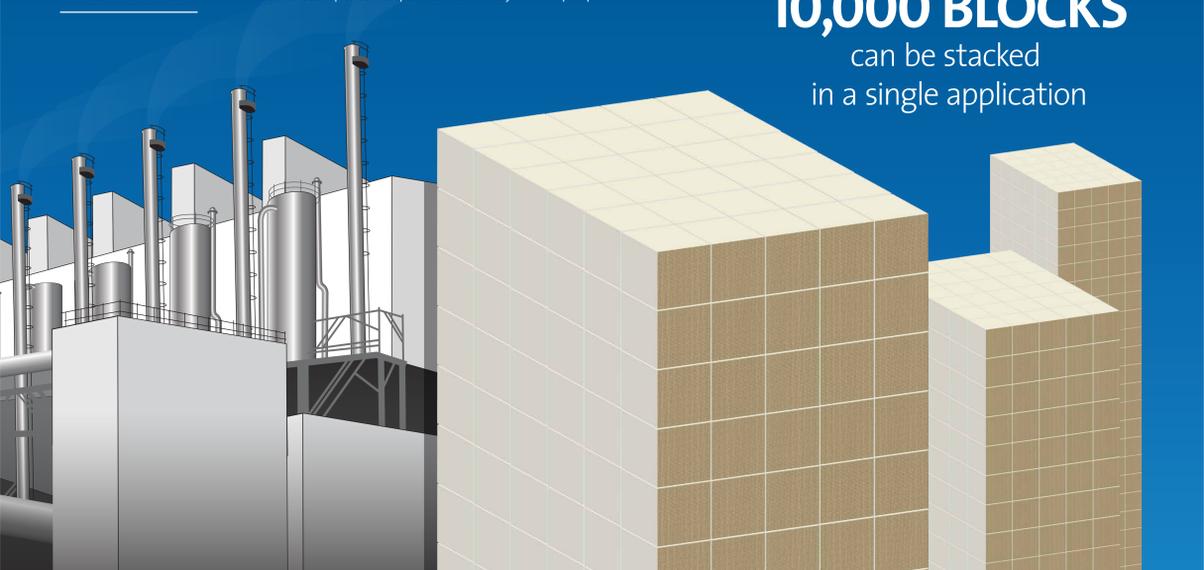
Much like light-duty systems, heavy-duty emissions control systems use Corning ceramic substrates and Corning® DuraTrap® filters to reduce pollution. Our large-scale products can be up to 13 inches in diameter.



YOU HAVE THE POWER

Banks of ceramic substrates can also be used in catalytic converters for power plants, power generators, chemical processing plants, and other industrial applications. Corning's ceramic material provides the optimal surface for catalysts that help keep emissions clean.

Up to **10,000 BLOCKS** can be stacked in a single application



SO MANY POSSIBILITIES

There is no "one-size-fits-all" configuration for emissions control systems. No matter what regulations need to be met or what goals need to be reached, Corning products can be mixed and matched to optimize volume, efficiency, performance, and durability.

EXAMPLE GASOLINE SYSTEMS

EXAMPLE DIESEL SYSTEMS

THREE-WAY CATALYST Corning® Celcor® substrate or Corning® FLORA® substrate	LEAN NOx TRAP Corning® Celcor® substrate
GASOLINE PARTICULATE FILTER Corning® DuraTrap® GC or GC HP filter	SELECTIVE CATALYTIC REDUCTION FILTER Corning® DuraTrap® AT HP filter
DIESEL OXIDATION CATALYST Corning® Celcor® substrate	SELECTIVE CATALYTIC REDUCTION
CATALYZED SOOT FILTER Corning® DuraTrap® AT or AC filter	

VOLUME	PERFORMANCE
EFFICIENCY	DURABILITY

In gasoline cars, diesel cars, large trucks, and beyond, Corning products are improving the quality and cleanliness of emissions. So we can all breathe easier.

To learn more about Corning Environmental Technologies, go to corning.com/environmentaltechnologies