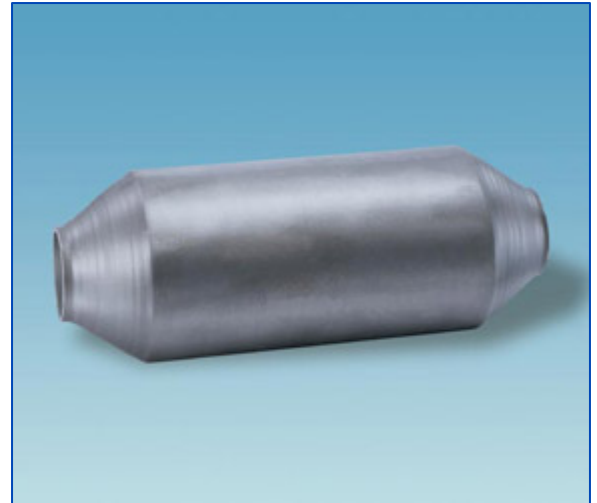


# Delphi Seamless Construction Catalytic Converter

The Delphi Seamless Construction Catalytic Converter is a critical element of the system used to help reduce vehicle exhaust emissions. The converter is manufactured from a single-piece shell. Its inlet and the outlet endcones are mechanically reduced to provide the required customer interfaces.

Engineering the endcone transitions property helps enhance catalytic converter durability by creating localized high support densities and flow patterns that prevent the direct impingement of exhaust gasses on the leading edge of the catalyst support. The use of internally insulated construction technologies can be incorporated to provide cooler converter skin temperatures and better noise behavior.



**Delphi Seamless Construction Catalytic Converter**

### ▶ Benefits

- Seamless, one-piece construction provides near zero-leak performance
- Robust construction and engineered support control offers excellent durability
- Internally insulated construction design enables improved durability, reduced heat rejection and lower noise
- Custom designs are available for specific applications to help achieve emissions performance objectives, to maximize engine performance and for engineered heat rejection
- Accelerated testing protocol enables faster time to market and lower implementation costs
- Zero offal production provides cost savings and a more environmentally friendly manufacturing process

### ▶ Typical Applications

The premium design approach for the Delphi Seamless Construction Catalytic Converter was created for applications with near-zero leakage requirements. Since the mechanical formation is numerically controlled, it is also an excellent candidate for small volume production requirements, which can have prohibitively high tooling costs. The Delphi Seamless Construction Catalytic Converter can be designed to meet individual customer requirements.

### ▶ Performance Advantages

The one-piece construction design of the Delphi Seamless Construction Catalytic Converter offers opportunities for zero leakage to help manufacturers meet ever-increasing exhaust emissions requirements and OBD (on-board diagnostics) requirements. The design also affords a slight mass reduction with the elimination of weld wire and the sheet metal overlapping used in joint development.

### ▶ The Delphi Advantage

Delphi is a global leader in engine management systems, including exhaust aftertreatment systems. Leveraging this expertise can help customers develop strategies to optimize fuel economy and exhaust emissions from air intake to the tailpipe. Delphi catalytic converters can play a significant role in helping create cost effective, environmentally friendly exhaust systems.

Since 1975, Delphi has produced more than 100 million catalytic converters. Delphi's exhaust emissions control technologies have helped prevent the release of an estimated 50 million tons of hydrocarbons, 245 million tons of carbon monoxide, and 60 million tons of oxides of nitrogen (NO<sub>x</sub>) into the atmosphere.