

Delphi Close-coupled Catalytic Converter

The Delphi Close-coupled Catalytic Converter is a critical element of the system used to help reduce vehicle exhaust emissions. The catalytically active element within the converter lowers the activation energy needed to selectively transform harmful combustion products into less harmful gases. The catalyst becomes active when it reaches a threshold temperature (light-off) specific to the engineered catalyst formulation. Delphi's Close-coupled Catalytic Converter is physically positioned very close to the engine exhaust ports to enable quicker light-off.

► Benefits

- Positioned close to the engine exhaust ports for fast light-off and reduced cold start emissions
- Robust construction 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



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► Typical Applications

To help meet increasingly stringent exhaust emissions requirements, it is essential that the catalytic converter reaches operating temperatures as quickly as possible after the engine starts. The Delphi Close-coupled Catalytic Converter is designed to withstand the high mechanical vibrations and very high temperatures inherent in high performance systems. The Delphi Close-coupled Catalytic Converter can be designed to meet specific customer requirements.

► Performance Advantages

Due to its close proximity to the engine exhaust ports, the Delphi Close-coupled Catalytic Converter quickly reaches light-off temperature. This helps reduce cold start emissions during the exhaust emission test procedure. The Delphi Close-coupled Catalytic Converter is designed to be robust to extreme vibration levels and high temperatures created close to the engine.

► 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_x) into the atmosphere.