

CATALYST FOR PURIFICATION OF INTERNAL COMBUSTION ENGINE EMISSIONS FROM CO, NITROGEN OXIDES, AND ORGANIC COMPOUNDS

Areas of Application

The catalyst is to be used for purification of exhaust gases produced by steam generators and vehicles from CO, NO_x, and organic compounds

Specification

Honeycomb-structured blocks of given shape with longitudinal channels to ensure a low gas-dynamic resistance.

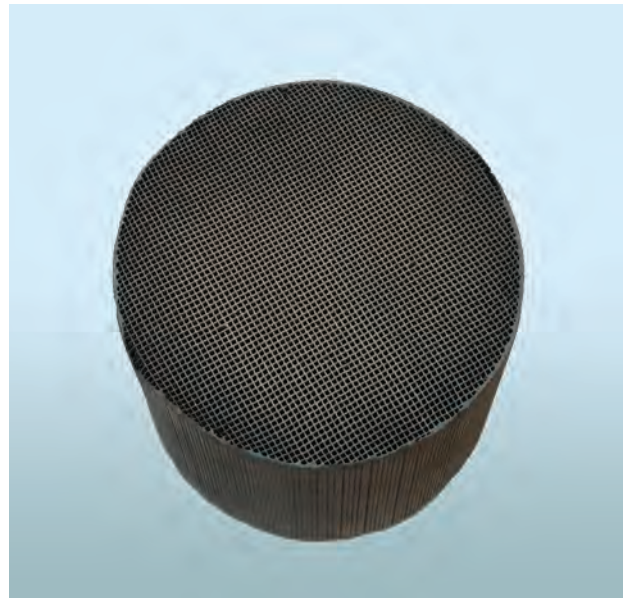
Purification from:

CO – 95–98% (95% conversion is achieved at 170 °C);

NO_x – 98–99% (98% conversion is achieved at 220 °C);

Organic compounds – 90–98% (90% conversion is achieved at 300 °C)

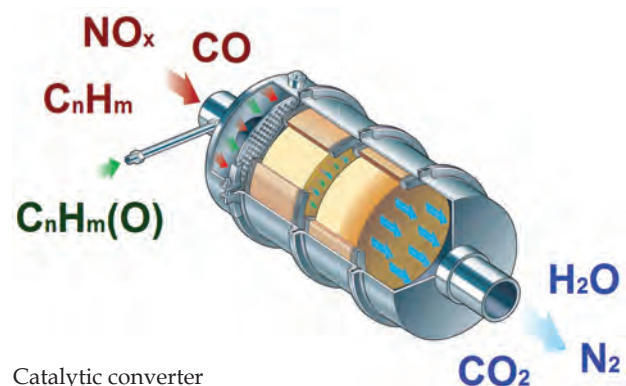
Operating temperature range – 150–600 °C



Pd/Co-Ce/cordierite catalytic block

Advantages

The catalyst-based technology enables reducing 2–3 times the content of platinum metals as compared with counterparts without compromising the effectiveness. The catalysts are characterized by a low temperature of high conversion of toxic components (170–300 °C) and a high resistance to sulfur compounds



Catalytic converter

Stage of Development.
Suggestions for Commercialization

IRL3, TRL4

Batches of catalyst are manufactured upon request

IPR Protection

IPR2

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