Catalyst Elements

Stationary Engines  Process Industries  Off-Highway  On-Highway

DCL International Inc. – Preserving and Improving the Quality of the Air We Breathe

Metalcor®

Stationary Engines  Process Industries  Off-Highway  On-Highway

DCL International Inc.
### Three-Way Catalysts

Three-way catalysts are used in rich-burn or stoichiometric engines for simultaneous conversion of oxides of nitrogen (NO\textsubscript{x}), carbon monoxide (CO), hydrocarbons (HC), formaldehyde (CH\textsubscript{2}O) and other EPA classified Hazardous Air Pollutants (HAPs). A closed loop air-fuel ratio controller is required for the three-way catalyst to work effectively.

### Oxidation Catalysts

Oxidation catalysts are effective for the control of carbon monoxide (CO), non-methane hydrocarbons (NMHC), volatile organic compounds (VOC), formaldehyde (CH\textsubscript{2}O) and other EPA classified Hazardous Air Pollutants (HAPs).

### Diesel Oxidation Catalysts

Diesel oxidation catalysts (DOCs) are effective for the control of carbon monoxide (CO), hydrocarbons (HC), odor causing compounds, and the soluble organic fraction (SOF) of particulate matter (PM\textsubscript{10}).

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**General Specifications**

- Thin-walled metal cell structures available from 50 to 500 cells per square inch, optimized for emissions performance and pressure drop
- Support structure durable to temperatures in excess of 1100 °C
- Catalyst coatings available in lean-burn oxidation, diesel oxidation and three-way catalyst formulations, in a variety of PGM loadings
- Non-brazed design for light duty and stationary applications (patent pending)
- Brazed design for heavy duty applications with high thermal and mechanical stress

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**Catalyst Formulation Options**

**Three-Way Catalysts**

- Rich-Burn
- Lean-Burn

**Oxidation Catalysts**

- Lean-Burn and Process Industries

**Diesel Oxidation Catalysts**

- Diesel
DCL International Inc. is a global leader in the engineering, manufacturing and supporting of advanced emissions control technology for stationary and mobile industrial engines. Our products include oxidation and three-way catalytic converters, catalytic mufflers, diesel particulate filters, stock mufflers and VOC abatement catalysts. Established in 1986, DCL provides innovative solutions for controlling engine exhaust emissions to the mining, tunnelling, construction, material handling equipment, power generation, co-generation, and gas compression markets.

To meet the specialized needs of the emission control market, we adopt an integrated approach, bringing together product development, design, manufacturing and testing all under one roof. This single-source capability enables us to provide better engineered emissions solutions that deliver outstanding performance, longer life and lower cost of ownership. Our superior product quality has made DCL the choice of customers around the world.