

CATALYSEUR THOMAS



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DCL OXIDATION CATALYST SPECIFICATIONS

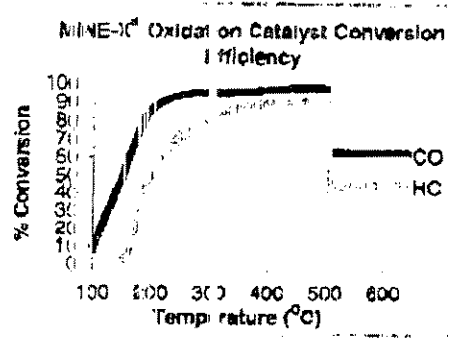
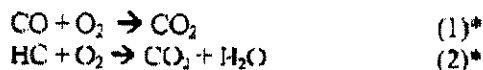
The following document certifies that the DCL product in question has been administered according to DCL specifications pertaining to the given application. MINE-X[®] products are sized according to application specifications obtained through DCL's clients and DCL is not responsible for incorrect information supplied by clients leading to wrongful sizing assessments.

<p>MD</p>	<p>An oxidation catalytic muffler for a specific model of equipment. Directly replaces the original muffler. Used on diesel engines.</p>	
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Working Principles

For diesel engines, a DCL oxidation catalyst is used:

Oxidation: The oxidation catalyst converts carbon monoxide (CO) and hydrocarbons (HC) into carbon dioxide (CO₂) and water (H₂O). In diesel engine applications the catalyst additionally converts the volatile organic fraction of particulate matter of exhaust into CO₂ and H₂O.



Typical conversion efficiencies for MINE-X[®] products:

Contaminant	Concentration Diesel Fuel	Catalyst Performance
Carbon Monoxide (CO)	500-1000 ppm	Typically exceeds 50% removal at 160 °C (320 °F). Typically exceeds 90-95% removal at above 260 °C (500 °F)
Hydrocarbons (HC)	300-500 ppm C ₁	Typically exceeds 50% removal at 250 °C (482 °F) in diesel applications. Typically exceeds 75-80% removal at above 300 °C (572 °F).
Diesel Particulate Matter (DPM)	25-150 mg/m ³	The net result on DPM measurements is highly dependent on sulphur levels in the fuel. Catalyst will remove approximately 20-40% of DPM but depends highly on DPM composition, which is also engine specific.

ISO 9001 Registered • Manufacturer of MINE-X[®] & QUICK-LID[®] Catalytic Converters

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