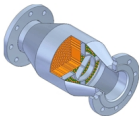


## DOC - Diesel Oxidation Catalyst



- Reduction on [Diesel](#) engines

The Diesel Oxidation Catalyst is a "two-way" converters which combined [carbon monoxide \(CO\)](#) and unburned [hydrocarbons \(HC\)](#) to produce carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O).

A two-way (or "oxidation") catalytic converter has two simultaneous tasks:

- Oxidation of carbon monoxide to carbon dioxide:  $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2$
- Oxidation of hydrocarbons (unburnt and partially burnt fuel) to carbon dioxide and water:  $\text{C}_x\text{H}_{2x+2} + [(3x+1)/2] \text{O}_2 \rightarrow x\text{CO}_2 + (x+1) \text{H}_2\text{O}$  (a combustion reaction)

### Typical Conversion for DOC Diesel Oxidation Catalyst

NO <sub>x</sub>	CO	HC	Aldehyde
Nil	70-95%	70-90%	70-90%

\* *Less than 50 ppm sulphur in diesel fuel is required for PM 10 conversion*

- [DOC Animation&nbsp;:](#)

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- If we can help you with a tailor made solution to fulfill your demands in emission reduction, please [contact us](#) . Also for any questions regarding this subject we are glad to answer you as good as possible. [Contact us](#)

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