

NO2 X



CoMeTas NO2 eXcellence is a zonecoating solution for DPFs for passive regeneration, without increasing NO2 beyond 10% compliance. NO2 X is specifically developed to meet future stringent regulations in Europe, requiring that the exhaust after treatment does not cause an increase in NO2 out. The coating is based on two zones. The purpose of the inlet zone is to generate NO2 for soot combustion and aid regeneration by a certain content of base metals. The purpose of the outlet zone is to remove excess NO2 by HC-SCR and aid regeneration by a high content of base metals: $CO + HC + NO_2 \rightarrow N_2 + CO_2 + H_2O$

Physical Filter Identification		
	Name	NO2 X particle filter
	Filter type	Wall flow filter made from re-crystallized silicon carbide or cordierite
	Manufacturer name	CoMeTas A/S
	Country of origin	Denmark
	Cell structure	90 - 300 CPSI

Regeneration process		
	Catalytically Active Elements	Combination of precious and base metals applied in zones
	Concentrations of above-mentioned (w/w-%)	Confidential
	Temperature Requirements for passive operation	Peak: 430°C or above Average: 250°C or above Time above 250°C: 30% Time above 300°C: 15% Time above 350°C: 5% (recommended)
	Thermal durability	Up to 900°C (peaks)

The average temperature must be minimum 235-250°C but the whole temperature profile over the vehicle's duty cycle must be analyzed.

If the temperature peaks at higher temperatures, frequently and at regular intervals, it is possible to operate with a lower average temperature. If the temperature never peaks above 320-350°C, the application could be unsuitable for this type of filter. Long idling periods must be avoided in all cases.

Expected emission reductions		
	CO	90%
	HC	95%
	NO2	Below +10% compliance
Sulphur resistance		500ppm

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02/2010