

Base X

CoMeTas Base eXcellence is the cost-effective cDPF solution for high temperature applications as well as high-sulphur level applications. Base X is widely applied in combination with other regeneration strategies such as diesel injection. The coating is based on a base metal oxides composition developed by CoMeTas and does not contain precious metal.

Physical Filter Identification

Name	Base 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	Confidential (combination of base metals)
Concentrations of above-mentioned (w/w-%)	Confidential
Temperature Requirements for passive operation	Peak: 480°C or above Average: 350°C or above Time above 350°C: 40% Time above 400°C: 30% Time above 580°C: 5% (recommended)
Thermal durability	Up to 900°C (peaks)

The average temperature must be minimum 340-355°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 400-450°C, the application could be unsuitable for this type of filter. Long idling periods must be avoided in all cases.

Expected emission reductions

CO	20-80%
HC	60-80%
NO2	70-90%
Sulphur resistance	No limit

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