

Solid X

CoMeTas Solid eXcellence is the cost-effective cDPF solution for high temperature applications as well as high-sulphur level applications. Solid X can also be used with great results in combination with other regeneration strategies, such as fuel borne catalyst. The coating is based on a base metal oxides composition developed by CoMeTas and has a low content of precious metal.

Physical Filter Identification

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|-------------------|--|
| Name | Solid 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

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|--|---|
| Catalytically Active Elements | Confidential (combination of base metals) and smaller content of precious 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: 30% Time above 400°C: 15% Time above 580°C: 5% (recommended) |
| Thermal durability | Up to 900°C (peaks) |

The average temperature must be minimum 325-340°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 380-430°C, the application could be unsuitable for this type of filter. Long idling periods must be avoided in all cases.

Expected emission reductions

| | |
|--------------------|---------|
| CO | 60-90% |
| HC | 70-90% |
| NO2 | 65-85% |
| Sulphur resistance | 1000ppm |

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