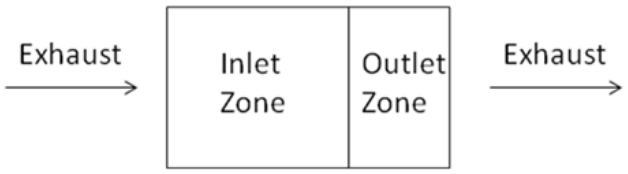
Both of the DPF coatings, NO2P and NO2X, are zone coatings. This means that a certain volume of the DPF on the inlet side has one type of catalytic coating and that a certain volume on the outlet side of the DPF has another catalytic coating.

CoMeTas NO2 Performer



The purpose of the inlet zone is to generate NO2 for soot combustion and aid regeneration by a certain content of base metals. For the inlet zone, NO2 performer uses CoMeTas CDPX, which is a platinum based coating with excellent regeneration skills.

CDPX is a low NO2 generating catalyst. Some data is available in the table to the right.

	CDPX	bench mark
BPT(°C)	312	328
NO2(ppm)	<100	<200
HC(ppm)	3	28
CO(ppm)	1	39
BP(mbar)	Low	moderate

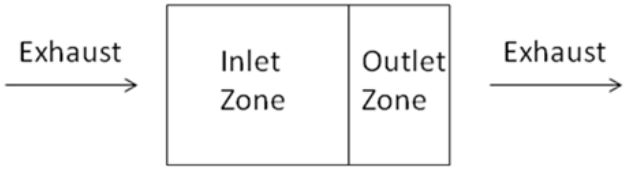
The purpose of the outlet zone is to remove excess NO2 by HC-SCR and aid regeneration by a high content of base metals:
$CO + HC + NO_2 \rightarrow N_2 + CO_2 + H_2O$

The NO2 neutral inlet zone, combined with the NO2-eating outlet zone gives a reduction of NO2 to less than 20% of total NOx emission.

Compared to NO2X, NO2P has the highest content of Pt and the best regeneration ability. NO2P should be chosen for applications where regeneration combined with NO2 emissions below 20% is required.

CoMeTas NO2 eXcellence

NO2 eXcellence (NO2X) is a zone coating, which uses a newly developed coating on the inlet zone.



The purpose of the inlet zone is to generate NO2 for soot combustion and aid regeneration by a certain content of base metals. In the NO2X inlet zone, some of the Pt has been substituted with other metals. This has shown to decrease the NO2 outlet to below 10% of the total NOx.

The outlet zone removes excess NO2 by HC-SCR and aids regeneration by a high content of base metals:
$CO + HC + NO_2 \rightarrow N_2 + CO_2 + H_2O$

NO2X should be chosen for applications where low NO2 outlet is crucial. NO2P has been TÜV tested and certified. This test showed a decrease of NO2 to below 10% of the total NOx with a regenerative profile.

These results are enabled by our innovative washcoat approach, which results in extended coating life time and improved performance.

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