

Catalyst temperature range table for Rich and lean burn engines

Engine Operation	Control Technology	Target Pollutants	Catalyst Temperature range	O2 content	Air fuel ratio control
Rich-burn	NSCR Catalyst (Three-way)	NOx , CO, VOC	>750 – 1250 ° F > 400 – 676 ° C	< 1%	Yes
Stoichiometric	NSCR Catalyst (Three-way)	NOx , CO, VOC	>750 – 1250 ° F >400 – 676 ° C	< 1%	Yes
Lean-burn	Oxidation Catalyst (Two-way)	CO , VOC	>450 – 1250 ° F >232 – 676 ° C	5 – 15%	Recommended
	SCR Catalyst	NOx	N/A - Ammonia injection	5 – 15%	Recommended

Rich burn engine – Excess fuel in the combustion chamber during combustion and lower exhaust oxygen concentrations.

Typical exhaust temperature - 1125 ° F (625 ° C)

Stoichiometric engine – defined as having the chemically correct amount of air in the combustion chamber during combustion

Typical exhaust temperature - 1044 ° F (562 ° C)

Lean-burn engine – excess air in the combustion chamber during combustion resulting in higher exhaust oxygen concentrations

Typical exhaust temperature - 710 ° F (376 ° C)