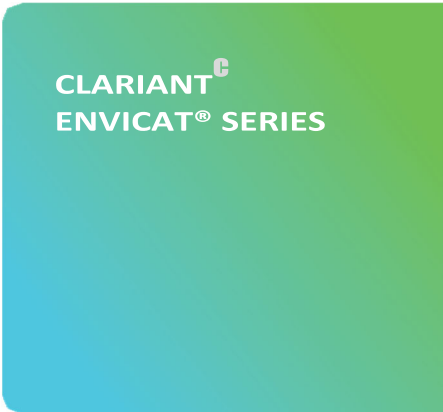


Passive Regeneration DPF's For Underground Mining



EnviCat® DPF series REDUCTION OF TOXIC PARTICULATE MATTER WITH LOW NO₂

EnviCat®DPF (Diesel Particulate Filter) catalysts greatly reduce emissions of Particulate Matter, CO and HC. These catalyzed wall-flow filters offer the efficient removal of particulate matter at low temperatures.

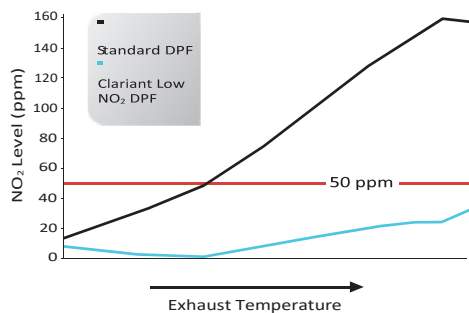


Clariant is a worldwide supplier of catalytic emission control solutions. Our vast experience with diesel engine applications led to the development of a mining specific solution in response to the underground mining industry's need for low NO₂ while maintaining a low regeneration temperature.

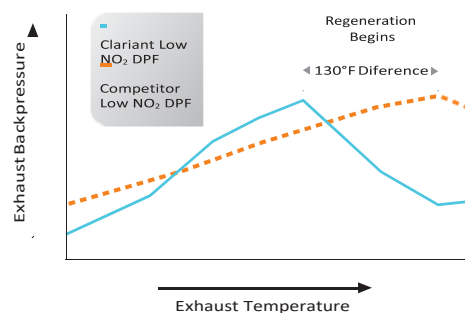
ENVICAT® DPF CATALYST (R2900)
Designed for a wide-range of applications

CLARIANT LOW NO₂ DPF HAS BEST IN CLASS PERFORMANCE

NO₂ CONCENTRATION AT TAILPIPE



DPF SOOT REGENERATION



Clariant Low NO₂ DPF designed specifically to meet stringent NO₂ requirements in underground mines.

Clariant Low NO₂ DPF achieves lower regeneration temperatures and has less frequent service interval requirements than comparable competitor product.

EnviCat® DPF series

REDUCTION OF TOXIC PARTICULATE MATTER WITH LOW NO₂

All hard rock mines and base metal mines sensitive to NO₂ in particular underground mines must control vehicle emissions. These mines strive for a low limit on particulate matter (PM) and NO₂ concentrations in ambient air. Ventilation systems have limits and consume a great amount of energy, therefore, DPFs (diesel particulate filters) provide a primary means for removal of toxic PM, while maintaining low emissions of poisonous NO₂.

Current passive emission control systems require high concentrations of NO₂ or high exhaust temperatures in order to regenerate. The lower the temperature the DPF regenerates at, the better the overall performance it provides. Clariant now offers a passively regenerating DPF that works across a very broad temperature range.

Clariant EnviCat® DPFs provide the best combination of low temperature regeneration and low levels of NO₂ found in the industry for passively regenerating filters. Our EnviCat® series DPF typically allows operation below 50 ppm NO₂ at the tailpipe over a machine's entire duty cycle.

The Clariant EnviCat® DPF series is listed by Mine Safety and Health Administration (MSHA) and has been tested to operate across 90+% of diesel powered underground and above ground mining machines. All housings are made from laser cut and TIG or MIG welded T304 or T409 stainless steel, with hardened flanges. Clariant offers many standard sizes and configurations. Custom shapes and sizes are also available.

Clariant EnviCat® DPFs are now available through MineTerra LLC.

For more information please contact: Support@MineTerra.com – Ron Stone (775) 391-4415

PARTIAL LIST OF MACHINES WITH DIRECT FIT CLARIANT DPFS AVAILABLE			
Atlas Copco	MT5010	Caterpillar	R1600
Atlas Copco	ST1520	Caterpillar	R1300
Brookville	15 Ton Locomotive	Caterpillar	AD30
Brookville	20 Ton Locomotive	Caterpillar	R1700G
MTI	LT-350 LHD	Sandvik	DS 311
Joy Global	LT-350	Sandvik	EJC210
DUX	SL500N	Sandvik	LH307
DUX	S1-SLP5000N SL	Sandvik	LH514
Trident	MT-416C	RDH	Muckmaster 250
Caterpillar	AD45	Toyota	Landcruiser
Caterpillar	R2900		

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