

Fleetguard®

Nanoforce Air Filters.

Expanded coverage in superior air filtration for heavy-duty diesel powered equipment.

Better Protection.

- NanoForce® air filters deliver the cleanest combustion air possible for On & Off Highway engine applications. Nanofiber, when combined with our enhanced pleat design delivers optimal air filter performance for superior engine protection and lower equipment operating costs.
- In many heavy-duty applications, 75% of the contaminant particles that reach the air filter are less than 5 micron in size. If not stopped, these particles wreak havoc on critical engine parts such as pistons, rings and liners.

Fiber Magnification 500x

The red circle represents a dust/dirt particle of 5 micron size. NanoNet® media provides a barrier to small, but harmful particles.

Real World Testing.

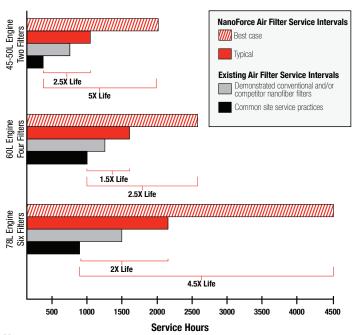
- NanoForce filters have been tested and proven in controlled laboratories using ISO 5011 and proprietary test methods to ensure an optimum balance of engine protection, performance and life.
- In addition to the laboratory tests, NanoForce filters have been extensively subjected to real world trials around the globe in a broad range of mining equipment. Even in the most severe environments in coal, copper, iron ore and platinum mines, with temperatures ranging from -45°C to +50°C, these filters have proven themselves time and again.

Lower Total Cost.

- Up to 30% lower annual air filter expenditure with NanoForce versus conventional filters = Lower operating cost.
- Reduced average air intake restriction during the service interval = Opportunity for lower fuel consumption.

Increased Filter Service Life.

- NanoForce filters may extend filter service intervals more than
 1.5X the typical recommended service period. During field trials, up to 5X the filter life was experienced. Service life can vary due to equipment type, air pre-cleaner, intake system design, site conditions, equipment duty cycle, etc.
- The chart below displays typical and best-case service interval improvements witnessed during real world NanoForce field trials.



Notes:

- Chart shows typical results achieved in real world testing of competitive (cellulose or nanofiber) Vs. NanoForce filters in mine haul trucks.
- Service life assumes 6 10" H₂O (1.5 2.5 kPa) clean filter restriction and a maximum of 25" H₂O (6.2 kPa) filter restriction.

Features & Benefits.

- 99.99% filtration efficiency; the best air filtration protection available.
- Up to 5X longer service interval versus conventional filters; less air filter changes.
- Robust design that provides reduced average air flow restriction over the service interval; reduced fuel consumption.

NanoForce Application Coverage.

- Air housing designs can vary; Cummins Filtration offers a range of filters suited to air housings of both axial seal and radial seal design.
- Primary air filters must be paired with the corresponding Fleetguard secondary filter to ensure optimum sealing and performance.

Conventional Fleetguard Part Number	NanoForce Upgrade Part Number	Secondary Filter	Typical Applications
AF879M	AF879NF	AF857	Haul Trucks: Belaz, Caterpillar, Euclid, Komatsu and Terex Excavators: Hitcahi and Komatsu
AF899M	AF899NF	AF880	Haul Trucks: Caterpillar, Komatsu and Liebherr Excavators: Komatsu and Liebherr Drills: Atlas Copco (Pit Viper)
AF27696	AF27993NF*	AF27994**	Haul Trucks: Belaz, Caterpillar, Euclid, Komatsu Liebherr & Terex Excavators: Hitachi, Komatsu
AF1605M	AF1605NF	AF1604	Hitachi Dumpers & Excavators Terex Loaders & Trucks
AF979M	AF979NF	AF987	AG Chem / AGCO Equipment; Peterbilt & International Trucks
AF891M	AF891NF	N/A	Cranes, Drills, Backhoes, etc
AF888M	AF888NF	N/A	Peterbilt Trucks
AF928M	AF928NF	AF26380M	International Trucks
AF996M	AF996NF	N/A	Peterbilt Trucks
AF1817M	AF1817NF	N/A	Freightliner Trucks
AF1616M	AF1616NF	N/A	Western Star Trucks

^{*} Use with service cover SP1307. Kit number AK15524NF contains the primary & secondary filters and the cover.

^{**} Filter kit number AA2990NF contains the AF27993NF primary and AF27994 secondary filters.







Typical 'Radial Seal' Design with Service Cover

Best Warranty in the Business.

The Cummins Filtration Warranty extends to our entire line of products, ensuring the same promise of performance and coverage beyond the competition. Cleaning nanofiber air filters will damage nanofiber filter media, thus compromising engine protection and voiding the filter warranty. Visit cumminsfiltration.com to learn more about the competitive benefits of the Cummins Filtration Warranty.









