



Lube Filtration featuring NanoNet[®] Media for Cummins ISX Engines.

Evolutionary Filtration.

Today's Cummins engines give higher performance and better fuel economy than ever before. Lubricating oils have also evolved to meet the demands of the harshest driving and operating conditions, and now filters are evolving too. Meet the latest in lube filtration technology – the **LF14000NN** with NanoNet[®] media.

A New Breed of Filter.

With advanced research and media manufacturing capabilities, Cummins Filtration has developed nanofibre media for Fleetguard lube filters. The pairing of NanoNet media with StrataPore[®] media has created a new breed of lube filter that offers higher efficiency, higher capacity and the best cold-flow vs restriction available. This makes the **LF14000NN** the natural selection for providing maximum protection for your Cummins ISX engine.



Survival of the Fittest.

Lube filters are challenged with three main tasks:

- Capture and retain contaminants that can damage the engine
- Allow for high efficiency throughout the life of the filter
- Improve cold-flow ability: the oil flow is under increased restrictions due to cold temperatures, high soot and sludge levels, oil oxidation, and premature plugging

Fleetguard NanoNet lube filters are designed to provide optimum levels of efficiency in these key areas. While all three areas are critical in extending the life of your engine, many manufacturers don't place the necessary emphasis on cold-flow performance.

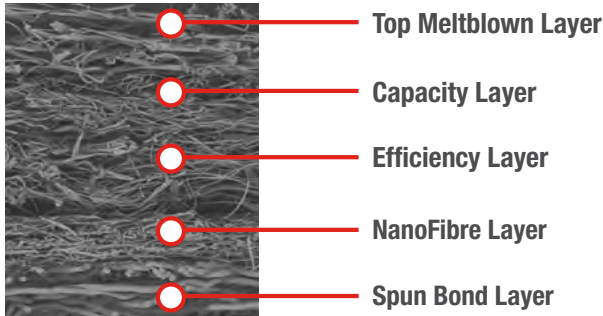
The capabilities found in NanoNet media ensure better cold-flow performance over competitive products. This means less



restriction and faster oil lubrication on cold start up, quickly and efficiently lubricating vital engine parts. Faster, better lubrication leads to extended engine life, lower total cost of ownership and increased productivity.

Highly Evolved Media.

Cummins Filtration is the only filter manufacturer that is part of an engine company, giving a competitive edge in developing filter media that outperforms competitors time and time again. The nanofibre media layers that make up NanoNet allow for the media to capture and retain contaminants that can harm your engine.



This microscopic view of NanoNet media shows how five distinct layers of protection capture and trap particles in a mesh no thicker than a 10c piece. Once contaminants are trapped in this multi-layered matrix, they can't escape.

Surpassing the Competition.

In meeting OEM requirements, Fleetguard filters perform with flying colors on stringent tests including:

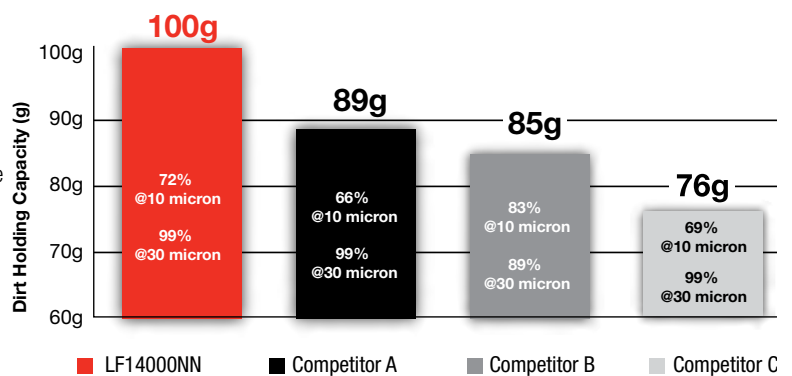
- Efficiency
- Element Collapse
- Contaminant Capacity
- Cold-Flow vs Restriction

Other manufacturers pass only one or two of these test standards at best. With tougher standards and use of the proven Fleetguard Science to Technology approach, you're ensured a filter that outperforms all the rest.

Superior Traits for Better Adaptability.

It's what's on the inside that counts...this holds especially true in the world of filters. Other manufacturers use microglass media, which can degrade and migrate downstream, causing the very damage you're trying to prevent. With 100% synthetic NanoNet media that is engineered to last, Fleetguard filters become the superior choice, especially in challenging environments.

- Structural integrity and design allows for maximum dust holding capacity
- The **LF14000NN** holds between 11 to 24 grams more contaminants than competitors



- LF14000NN Dirt Holding Capacity of 100g, 99% efficient at 30 micron and 72% efficient at 10 micron
- Competitor A Dirt Holding Capacity of 89g, 99% efficient at 30 micron and 66% at 10 micron
- Competitor B Dirt Holding Capacity of 85g, 89% efficient at 30 micron and 83% efficient at 10 micron
- Competitor C Dirt Holding Capacity of 76g, 99% efficient at 30 micron and 69% at 10 micron

* LF14000NN meets or exceeds the OE requirements in efficiencies while providing the best dirt holding capacity for extended service interval practices.

The LF14000NN is now standard on all new Cummins ISX engines and should be used to service all ISX engines. LF14000NN is suitable wherever LF9080 was previously used.

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. Visit cumminsfiltration.com to learn more about the competitive benefits of the Cummins Filtration Warranty.

Scan here to learn more about the LF14000NN with **NanoNet** media.



<http://www.fleetguard.com.au/products/lube-filtration/nanonet-lube-filters>



Fleetguard.com.au
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