



Service Line

NEWS AND IDEAS FROM AMSOIL

New Filters Achieve Absolute Efficiency

You've heard of a nanosecond. It's perhaps the smallest amount of time imaginable.

You probably haven't heard of a nanofiber. It's perhaps the smallest fiber imaginable – less than one micron in diameter.

Tiny synthetic nanofibers are the basis for breakthrough automotive filtration technology that allows optimum efficiency, capacity and flow.

For the first time ever, AMSOIL brings you cutting edge nanofiber technology to provide "absolute efficiency" in air and oil filtration in the auto/light truck market. Until now, this technology was only available in heavy duty applications such as the US Army Abrams M1 tank.

Now, AMSOIL Ea Air and Ea Oil Filters put this technology to work for auto/light truck drivers, to optimize engine life and performance, save time and money, and provide unprecedented convenience.

Revolutionary Air Filter Technology

Nanofiber technology in air filters is more efficient than filters made with cellulose alone because cellulose fibers are larger and have a larger space between them, which allows contaminants to load in the depth of the media and plug the airflow path. That means higher restriction and less capacity of the air filter.

AMSOIL Ea Air Filters incorporate a specially constructed cellulose media with exclusive synthetic nanofibers applied to the surface. Dust and sub-micron particles are trapped on the nanofiber surface, preventing them from lodging in the filter media depth.

Since the most important function of an air filter is to trap and hold wear-causing dirt and contaminants, the more contaminants the filter holds, while still allowing optimum air flow, the better is the filtration media.

The new nanofiber technology used in AMSOIL Ea Air Filters surpasses all other technology in efficiency, capacity and service life. Tests show that AMSOIL Ea Air Filters have more than three times the airflow of filters that use cellulose media alone.



AMSOIL Ea Air Filters are guaranteed for 100,000 miles or four years.

Likewise, a filter's ability to contain trapped contaminants determines how long the filter will remain effective. If the capacity is too low, the filter will need constant replacement. When the filter is full, air can't pass through at a rate needed for proper engine performance.

AMSOIL Ea Air Filters hold up to five times more contaminants than cellulose air filters. Further, tests reveal AMSOIL Ea Air Filters hold 15 times more contaminants than a wet gauze type filter.

The new AMSOIL Ea Air Filters remain effective for a full 100,000 miles or four years with annual cleaning. Ea Air Filters should be cleaned every year or 25,000 miles, whichever comes first. Filters can be easily cleaned using low pressure shop air. AMSOIL does not recommend cleaning the Ea Air Filters with water. Use only a low suction vacuum or low-pressure shop air.

Revolutionary Oil Filter Technology

Completing its offering of world-class filtration, AMSOIL now has a full Ea Oil Filter line. Ea Oil Filters feature advanced full synthetic nanofiber technology, which makes them the highest efficiency filters available for the auto/light truck market.

continued on back page

'Absolute Efficiency' *continued . . .*

Cellulose and blended medias found in most oil filters have larger fibers than the synthetic and synthetic nanofibers found in the Ea Oil Filters.

Clean oil is vital to keep engines running properly. Oil must lubricate, cool and clean the engine as it circulates. In order to remain effective it must be filtered as it cycles.

The function of the oil filter is to remove the contaminants introduced into the lubricating oil and prevent them from reaching sensitive engine parts without restricting normal oil flow to the various points that need lubrication.

Proper oil flow is essential to keep moving parts lubricated at all times. A filter without adequate flow properties can cause catastrophic engine failure.

Efficiency

Efficiency is the filter's ability to capture contaminants. The more efficient a filter is, the more contaminants it will remove from the oil. To make a filter more efficient the spaces between the fibers in the media are made smaller, creating more resistance and limiting the oil's ability to flow through the filter. Achieving maximum efficiency along with limited resistance is the hallmark of a great filtration product.

Extensive testing shows AMSOIL Ea Oil Filters achieve a near perfect absolute efficiency rating. The exclusive technology in AMSOIL Ea Oil Filters provides filtering efficiency to 98.7 percent at 15 microns.

Capacity

Capacity is the amount of contaminants a filter can hold and still remain effective. An oil filter that has reached maximum capacity allows the oil to continue to flow through unfiltered, leaving harmful contaminants circulating in the oil. Such a filter is at the end of its life and must be changed.

AMSOIL Ea Oil Filters are guaranteed for 25,000 miles or one year, whichever comes first, when used with AMSOIL synthetic motor oil in gasoline and diesel vehicles in normal service, and 15,000 miles for severe service. Even better, the filters can be cleaned annually or semi-annually, depending on whether they are in normal or severe service use, and hold their performance ability up to 250,000 miles or four years.

Flow

Flow is restricted as the spacing in the filter media is made smaller to provide greater efficiency. The synthetic nanofibers in AMSOIL Ea Oil Filters allow maximum efficiency without restricting flow. This provides unsurpassed cold-start performance and ensures proper levels of lubrication throughout the engine.

Ea Oil Filters are recommended for use up to two times longer than OEM recommendations for commercial units, fleets and RVs using diesel-fueled engines, not to exceed 60,000 miles for heavy-duty on-highway diesel applications.

For specific filter application information, visit the AMSOIL corporate website at www.amsoil.com, Product Information tab, or contact AMSOIL Technical Services.

The AMSOIL Service Line sent courtesy of your Servicing AMSOIL Dealer.

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www.SyntheticOils.us