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HEAVY DUTY FILTRATION

WHY WIX?

With a history steeped in heavy duty filtration, WIX® Filters knows that filtration has always been a critical consideration that can significantly impact the long-term profitability of an entire fleet. That fact holds even more relevance today, as fuel prices and vehicle maintenance take more and more of every fleet's operating budget.

WIX Filters has never forgotten that its roots were founded in the heavy duty industry. That's why WIX heavy duty filters can stand up to whatever the industry demands. Testing and benchmarking continues to prove this. WIX's heavy duty filtration engineers have over 175 years of combined experience and dozens of U.S. patents. It's no wonder WIX is the global leader in heavy duty filtration.

What do you get out of our 75-plus years of experience in heavy duty filtration? You get features and benefits in heavy duty air filters like silicone sealing gaskets, media that is 99.9% efficient, skip-a-pleat and hot melt media stabilization for better capacity, plus handles that make the technician's job easier. You also get oil filters with patented Spin-Flow® technology that help them work longer and fuel filters with QuickVent® water removal capabilities.



WHY WIX?

HEAVY DUTY AIR FILTRATION

Why choose WIX heavy duty air filters over competitive filters? Because WIX has done its homework when it comes to air filtration. It takes only eight ounces of dirt to destroy a heavy duty engine. The typical off-road vehicle is exposed to 1 1/2 to 2 1/2 tons of airborne dirt each year, meaning first-rate air filtration is critical to the life of the engine. That's why WIX heavy duty air filters are designed to take that protection to new levels.

Pleating Processes: Arch-shaped pleats with skip-a-pleat or PowerTrap® embossing evenly distribute airflow over the entire surface area of the filter, while preventing pleat collapse that restricts airflow. This design feature is important because it improves filtration at high airflow rates and also improves the filter's efficiency and dirt-holding capacity.

Pleat Stabilization Beads: WIX uses hot melt or plastisol stabilization beads at optimal spacing on large heavy duty air filters to keep the media from fluttering or pleats collapsing, which diminish the capabilities of the air filter.

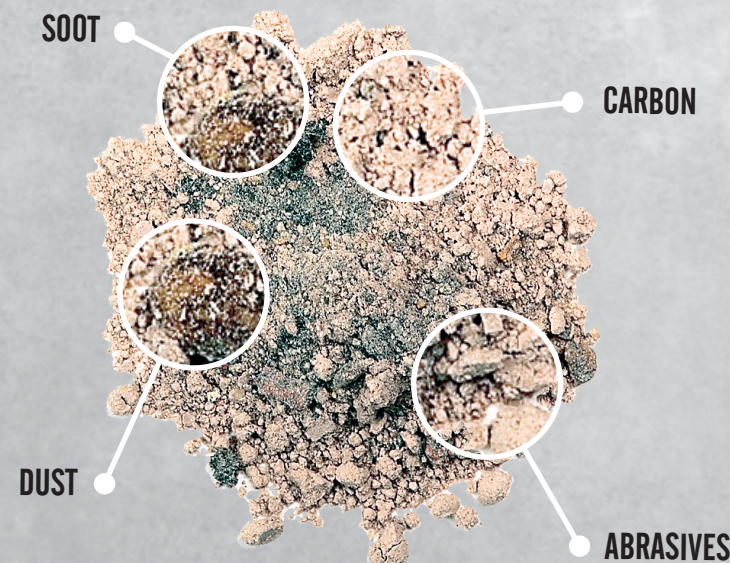
Prescription Media: WIX heavy duty air filters use filter media that is 99.9% efficient and chosen specifically for each application to hold the maximum amount of dirt and provide the maximum length of service.

Application-Specific End Caps: The end caps of our heavy duty air filters are chosen for the best performance for each application they are designed to protect. WIX has a history of improving on OE designs, and one example of that is the handle that we built into many of our radial seal air filters. We did this to make it easier for you to service the vehicle versus using the OE design with no handle. And it's that kind of thinking we've put behind all our end cap elements, like ensuring exacting torque-load distribution on gasket seals, which enhances the filter's structural integrity.



Sealing Gaskets: WIX knows leaking gaskets allow air to bypass the filter element altogether and that different applications call for different gasket materials. In fact, we again improved upon OE gaskets by introducing the silicone gasket several years ago. This silicone gasket is impervious to environmental conditions and seals by deflection not distortion, meaning it stays sealed under all temperatures and vibrations. WIX heavy duty air filter sealing gaskets are designed specifically for the environmental condition they will be exposed to and they are permanently bonded to the end cap to prevent leaks. Whether it's a foam, silicone or radial seal gasket, you can rest assured it will protect the engine.

Media-Protecting Metal Shell: WIX uses a .028-inch-thick shell of expanded corrosion-resistant steel to give the filter element strength and to support the media pleats, protecting them from damage.



SILICONE SEALING GASKET

METAL END CAP WITH HANDLE

MEDIA-PROTECTING METAL SHELL

PLEAT STABILIZATION BEADS

PATENTED PLEATING PROCESS



WHY WIX? HEAVY DUTY OIL FILTRATION

Oil is the lifeblood of any vehicle, and this holds particularly true of on- and off-road heavy duty equipment. Many operators spend hours deciding what oil they are going to use and tend to take their oil filtration for granted. However, this small and inexpensive portion of their overall system plays a vital role in protecting engines from premature wear and potential failures.

We make it easy. Choose WIX heavy duty oil filters and rest assured that our commitment to continued research and development has taken all the guesswork out of choosing the right filter for your fleet, agricultural or off-road application. And if there's any doubt, just look at all the technology we put inside.

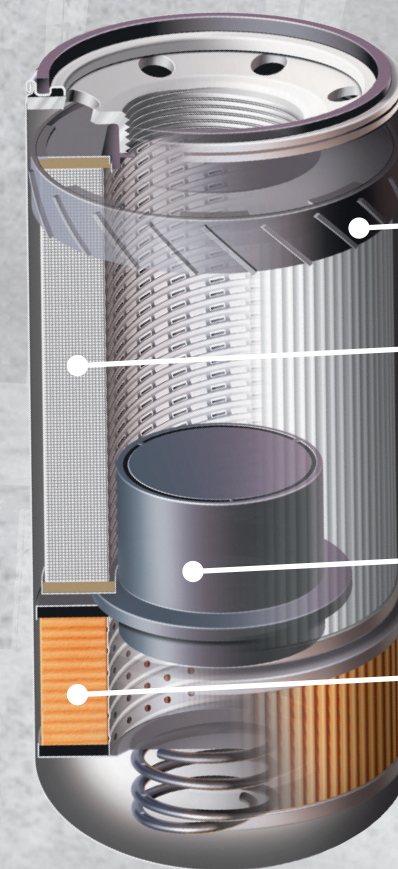
Prescription Media: WIX chooses each filter's media for the highest performance in each application. Our engineers spend many hours making sure the media in each filter provides the best dirt-trapping capabilities and the longest life.

Improved Base-Plate Geometry: The majority of our WIX heavy duty spin-on oil filters use a neck-down base-plate configuration. This design places additional metal around the threaded hole for improved strength and thread engagement. Our base-plates also have oil inlet holes that are arranged to provide maximum oil flow and maintain base-plate strength.

Double-Rolled Seam Sealing: The WIX double-rolled seaming technique used to seal the can to the base-plate assures against leaks in a filter that undergoes a wide range of pressures and pulses.

High-Strength Can: Our WIX heavy duty filter cans are designed to withstand high-static burst pressures of more than 300 psi.

Crush-Resistant Center Tube: Differential pressure is the enemy of common center tubes and can even crush them. WIX heavy duty oil filters use an embossed and perforated center tube that is spira-wound to provide maximum strength and oil flow.

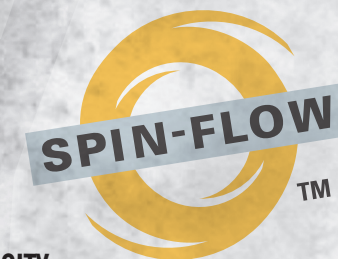


ANGLED FINS

XD-55 MULTI-DENSITY
WIRE-BACKED MEDIA

SPINNER

XD-80 HIGH-STRENGTH MEDIA



Coiled Steel Spring: All element retention springs are not created equal. The WIX steel tension spring has the ends turned in and away from the surface it comes in contact with and it will not weaken. This detail means that the spring sits flush on the surface it is touching and won't damage the surface over time. This feature also means that the filter element is positively sealed to the base-plate, so no oil escapes filtration.

We could go on and on about all the engineering details that go into our heavy duty spin-on oil filters and what makes them the right choice for your fleet, but we ask you to take a look at our XD spin-on oil filters as an example of our engineering expertise. This particular filter combines all of our exceptional standard features with our patented Spin-Flow® technology to provide our customers with a state-of-the-art filter design and incredible performance. It combines two types of prescription media based on their role in the filtration process, along with angled fins to direct and control heavy particles. An oil spinner will regulate the flow to the bypass element and re-mix the filtered oil on the clean side of the element.

Now that is spin-on oil filter engineering expertise.



WHY WIX? HEAVY DUTY FUEL FILTRATION

No matter what size or horsepower rating your engine is, the fuel that powers it can be filled with contaminants like dirt, rust, scale, algae and of course, water. This contamination can rob your engine of power and even cause fuel system failures.

WIX Filters understands the need to protect this vital power system and offers high-quality, high-efficiency fuel filters and a complete line of fuel/water separators, for pickup truck, farm, construction, mining and other off-road applications.

WIX also studies the latest trends in ultra-low sulfur and bio-diesel fuel and the demands that these fuels place on filtration products. We are actively involved in industry bio-fuel seminars and research to make sure we understand how our products meet the filtration requirements of these new fuels.

Look, we could once again go through the long list of features and benefits again, that go into our fuel filters — prescription media, improved base-plate geometry, double-rolled seam sealing, crack-resistant can, crush-resistant center tube and coiled steel springs. But, these are a given in WIX heavy duty spin-on filters for all types of fluids. We think it's worth it to point out a single example of how WIX engineers improved on an OE design, so you understand the commitment WIX has to building better fuel filters for diesel vehicles and equipment of all sizes.

The WIX 33960XE for the Chevrolet/GMC 6.6L Duramax Diesels eliminates many of the weaknesses of the original and competitive designs. The new filter features an all-plastic design that won't rust, corrode, or dent and is stronger than the original all-metal design. It also incorporates molded threads into the top and bottom of the canister that eliminate the risk of leakage found in competitive designs. Plus, the new, more compact design makes it easier to handle during replacement and also provides superior durability, flow, capacity, and solid and liquid control. That's the passion and commitment WIX has for making our filtration products the best you can buy for your fleet.



MOLDED THREADS



HEAVY DUTY TRANSMISSION, HYDRAULIC, COOLANT CABIN AIR AND SPECIALTY FILTRATION

WIX understands that fleet maintenance doesn't end with a simple change of air, oil and fuel filters. We have all the filtration products you need to service your entire fleet of vehicles and machinery, plus the fluid analysis that professional technicians use to manage and verify their maintenance schedules.

Our catalogs contain over 2500 pages of filters and other products you may be looking for to service your fleet.



WHY WIX?

TRAINING

Not only does WIX offer its customers the best face-to-face filtration training through the WIX Institute of Filtration Technology, they also offer an online learning center where you can take courses to become a Certified Filtration Specialist. Founded years ago as an offshoot of the WIX Institute, the WIX Filtration eLearning Center provides students with multiple curriculum levels in both light and heavy duty filtration in a convenient medium that can be completed at their own pace, is available in English and Spanish. This free online course, found at www.wixconnect.com, provides intensive, specialized training that involves filter construction, system functions and performance dynamics.



FEET ON THE STREET

WIX continues to support an award-winning sales force. We are dedicated to fully supporting our customers at all levels with Fleet Filter Surveys performed by our highly trained heavy duty filtration professionals on the street.

ANSWERS TO YOUR QUESTIONS

WIX also offers customer service and support through a variety of mediums, including their **product information line (0800 123 321)** as well as **www.wixfilters.com/en-nz**

