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Why do I need a Pre-Filter? - 07/26/2004

Outerwears Pre-Filters are designed to keep out larger particles of street debris such as rubber, dirt, and sand from getting into and clogging the pleats of air filter elements. Premature clogging of an air filter will result in loss of horsepower and an increase in service intervals. Outerwears pre-filters are uniquely designed to protect your engine and the performance air filter investment without sacrificing airflow or horsepower. Particles as small as .005" are filtered out extending filter life. Even in harsh conditions including heavy moisture, an Outerwears Pre-filter will enhance your filter's ability to continue flowing the necessary air required for maximum performance while reducing the possibility of water ingestion into the engine. Proper use of an Outerwears Pre-filter will save money on filter cleanings or replacements and extend engine life. Customers are reporting increased fuel efficiency.

Outerwears Pre-filters are used and recommended by top professional engine builders and race teams worldwide. Outerwears Pre-Filters will help prevent needless engine wear and tear, which will be obvious upon engine analysis during rebuilding.

- Protects engine and air filter
- Keeps out larger particles of debris down to .005"
- Prevents debris from prematurely clogging filter pleats
- Reduces service intervals and extends filter life
- Saves Money

How does a Pre-Filter work? - 07/26/2004

Outerwears Pre-filters contain uniform micron openings and are run dry meaning no additional oils or additives are required. Running a dry Pre-filter means there is no dirt

sticking to the oil creating premature loss of airflow and horsepower. Only those particles of dirt smaller than .005" get into the actual air filter, the larger particles simply fall off the Outerwears pre-filter. In addition, Outerwears Pre-filters are constructed with a woven mesh that is specially treated at the mill using a proprietary process to repel water. This hydrophobic water repellent process is not sprayed on; consequently, there is no airflow loss. Whether you use your vehicle for everyday driving or for hard core off-road racing, Outerwears Pre-filters will work for you to protect and extend the life of your performance air filter and engine. Although our pre-filters are proven to be extremely effective in repelling water, please keep in mind they are not water proof. If submerged, your air box can hold or pass water. This hydrophobic treatment will last for six months to one year, depending on use and conditions.

- Filters out larger particles of debris down to .005"
- Many larger debris particles simply bounce off
- Hydrophobic manufacturing process repels water
- Uniform micron openings allow air in and filters out debris and water

Will adding a Pre-filter reduce my airflow or horsepower? - 11/03/2004

Adding an Outerwears Pre-Filter will not have any significant reduction in airflow (independent lab test results available upon request. Most Performance air filters allow more air in than the engine can actually handle. In fact, an Outerwears pre-filter keeps your primary filter cleaner for a longer period of time allowing your engine the ability to sustain its original airflow and horsepower for an extended amount of miles and time. Many of our customers claim they have also noticed an improvement in fuel efficiency. This may simply be attributed to the fact that they are keeping their air filter cleaner.

- Test results show no significant loss of airflow
- Horsepower levels are maintained longer due to cleaner primary filters

Will the Pre-Filters work on paper filters? - 11/03/2004

Yes. An Outerwears Pre-Filter will actually work on any exposed air filter. Paper filters usually begin to lose airflow and horsepower almost immediately due to their surface loading design vs. depth loading designs of performance cotton filters. Because of a paper filters surface loading design adding an Outerwears Pre-filter keeps the surface of a paper air filter cleaner for extended amount of miles allowing for better airflow and less service intervals. Outerwears extended protection is accomplished in part because of the unique polyester material and weave patterns.

- An Outerwears Pre-Filter will work on any exposed air filter
- Outerwears Pre-Filters are especially effective on paper filters because of the paper filters limited air flow design

How much dirt will the Outerwears Pre-Filter keep out? - 11/03/2004

An Outerwears Pre-Filter will filter out larger particles of dirt down to .005". However what makes an Outerwears Pre-Filter so unique is that a large portion of dirt and road debris is

simply deflected. Since the Pre-Filter is not treated with oil, a significant portion of debris that normally reaches and adheres to the primary air filter, will not actually reach the primary filter nor will it stick to the Pre-Filter.

- Outerwears Pre-Filters filter out particles down to .005
- A large portion of the debris is simply deflected

How long will the Pre-Filter last? - 11/03/2004

This will depend entirely on driving conditions and the amount of miles driven. Generally speaking we recommend changing the Pre-Filter every 6-12 months. Your Pre-Filter may actually deflect debris for a longer period of time, however, the water repellency feature will be less effective over time and cleanings. Washing your Pre-Filter prematurely or washing your Pre-Filter with a non Outerwears branded cleaner will reduce your Pre-Filters ability to repel water. If your vehicle or driving conditions expose your filter to extreme moisture or splashes of water, we highly recommend changing your Pre-filter every 6-12 months.

Pre-Filters are recommend to be changed every 6-12 months

Can I re-use the Outerwears Pre-filter? - 11/03/2004

Yes. Outerwears Pre-Filters are washable and reusable. Depending upon driving conditions, an Outerwears Pre-Filter may be washed and re-installed over and over again. We recommend, depending on driving conditions, you replace the Pre-Filter every 6-12 months to maintain the proper filtration and water repellency.

Outerwears Pre-Filters are washable and reusable

How often do I need to clean the Pre-Filter? - 11/03/2004

Once again, depending on driving conditions, service intervals may vary. We recommend you make a visual inspection as often as you would normally service your vehicle. If you are an off-road racer, we would recommend viewing the Pre-Filter at least after every race. If you can see a significant amount of dirt, you should clean the Pre-Filter. If you are an automotive enthusiasts and the only driving you experience is the street, we recommend checking the Pre-Filter every 3,000-5,000 miles. Although your Pre-filter may not require a thorough cleaning, you may want to shake off any excess dirt to maintain your optimum horsepower and fuel efficiency and then simply reinstall.

- Depending on driving conditions the Pre-Filter should be inspected at least after every race
- Street use every 3,000-5,000 miles
- After inspection and the filter looks a little dirty --simply remove, shake off and reinstall

After inspection and the filter appears to be loaded with debris --remove and wash with **Outerwears Pre-Filter Cleaner** allow to dry and reinstall

How do I clean an Outerwears Pre-Filter? - 11/03/2004

The best method for cleaning an Outerwears Pre-Filter is to shake off any excess dirt and wash by soaking for 10 minutes with the concentrated Outerwears Pre-Filter Cleaner

solution (1:15 ratio. After soaking, agitate the Pre-Filter in the Outerwears cleaner solution and water to remove any remaining debris and grime. Once the desired cleanliness has been obtained, shake off any excess water and air dry. If caught on a road trip or during a race without access to Outerwears Pre-Filter Cleaner and water, you can also remove a significant amount of dirt by simply shaking the Pre-Filter and allowing the excess dirt to fall off.

Will adding the Pre-Filter void my warranty? - 11/03/2004

No. Adding a Pre-Filter will not void your warranty. When you install a Pre-Filter, you are not replacing any original factory or aftermarket parts nor are you reducing the original filters filtering capacity. In fact, you are enhancing the original filters ability to keep your engine clean.

Adding a Pre-Filter will not void your warranty

Does one size fit all? - 11/03/2004

No. Outerwears Pre-Filters are custom fit applications designed to fit each specific filter application. A loose Pre-filter at the base would allow debris to by pass the Pre-Filter defeating the purpose.

Outerwears Pre-Filters are designed to custom fit each air filter

Can I use an Outerwears Pre-filter without a standard filter? - 11/03/2004

An Outerwears Pre-Filter is certainly made of high quality materials and will prevent larger particles of dirt from entering into the engine. However, Outerwears manufactures Pre-Filters that should not be confused with a primary filter. You must continue to use a primary filter and add an Outerwears Pre-Filter to enhance your primary filters performance.

- Outerwears manufacturers Pre-Filters not to be confused with primary air filters
- Outerwears Pre-Filters must be used in combination with a primary filter

Will adding an Outerwears Pre-Filter stop water ingestion? - 11/03/2004

The Outerwears Pre-filter is an excellent solution to prevent water from entering into the engine due to puddles or heavy rainstorms. An Outerwears Pre-Filter is designed to be water repellent and will reduce the risk of water entering through an air intake system. Although our Pre-Filters are proven to be extremely effective in repelling water, please **keep in mind they are not water proof**. If submerged, your intake can hold or pass water.

- Outerwears Pre-filters are an excellent solution to prevent water from entering into the engine
- Outerwears Pre-Filters are designed to repel water against heavy rainstorms and road puddles

How long will the water repellency last? - 11/03/2004

The water repellency longevity is dependant upon driving conditions and the number of times the filter is cleaned. Generally speaking, we recommend changing the Pre-Filter every 6-12 months. However, a quick test can determine if it is time to change your Pre-Filter. Simply take an ordinary clean spray bottle filled with water and gently spray the Pre-Filter.

If the water beads off the Pre-Filter, your water repellency is still working. If you see water enter through the Pre-Filter, it is time to purchase a new Pre-Filter.

Water repellency feature will last 6-12 months depending on driving conditions and number of cleanings

Can I retreat the Pre-filter with water repellent spray? - 11/03/2004

No. The Outerwears Pre-Filters water repellency feature is a complicated hydrophobic water repellent process. It is not sprayed on. This process is designed to prevent water ingestion, and at the same time, continue to allow maximum airflow. If you were to spray on any aftermarket water repellency solution, you would reduce the airflow resulting in horsepower and fuel efficiency loss.

Water repellency feature is a factory process and cannot be duplicated by spraying on an aftermarket water repellency solution

Will the Outerwears water repellent Pre-Filter restrict airflow more than the non-water repellent Pre-Filters? - 11/03/2004

Our water repellent Pre-Filters are manufactured using a hydrophobic water repellent process. This hydrophobic water repellent process is not sprayed on; as a result there is no air loss.

Outerwears water Repellent Pre-Filters will not have any negative airflow loss compared to a non-water repellent Pre-Filter.

Do you offer more colors? - 11/03/2004

Yes. Our standard colors are Black, Blue, Red and Yellow. However, upon special request, we can provide custom colors. Pricing and availability will depend on volume and if you desire the water repellency feature. Our material is manufactured in large rolls that in turn, depending on size, produce hundreds of Pre-Filters. Some colors we keep on hand allowing the minimum order requirement to be less and others require special handling. This will require a much larger order with a non-refundable deposit.

- Four standard colors are available; Black, Blue, Red & Yellow
- Other colors are available for special order based on volume