



Clean air — the critical element

Every engine — automotive or heavy-duty — needs air to function and a plugged air filter may reduce engine performance. The life of your filter is affected by the air it breathes. Engines operating in areas that are dusty, rural or heavily polluted will need to have the air filter changed more often.

In heavy-duty applications, Hastings recommends the use of an air filter restriction gauge, which accurately measure the buildup of dirt. Until maximum acceptable restriction is reached, the accumulation of dirt in the filter actually adds to its efficiency. However, once the maximum acceptable restriction is reached, the filter needs to be replaced.

Before disposing of your old air filter, inspect it carefully for clues concerning the performance of your air induction system.

- **Black, oily soot** may mean that the air intake is located too close to the exhaust. Consider relocating air intake components.
- **Dirt on the clean side of the filter element** may indicate the filter did not seal properly or there is a split in the filter media. Check seals and gaskets. Do not attempt to reuse the filter.
- **Rust on the filter's metal parts** can mean that water is being drawn in with the air. Check the location of the intake and make sure water-venting ports in the induction system are clean and free of obstructions.

Hastings does not recommend cleaning air filter elements, as the cleaning process might damage the filter — leading to premature engine failure.

Hastings' uncompromising quality

Since 1944, Hastings Premium Filters has been serving the automotive and commercial markets with quality filter products. In 1995, Hastings became a part of the CLARCOR group, which has enabled the company to share innovative ideas and technologies with its sister companies and to grow as a provider of filtration products.



Hastings delivers superior coverage for engine filtration needs by producing air, lube, fuel, coolant, hydraulic and transmission filters, as well as crankcase breathers. With over 4,500 part numbers, Hastings can meet your filter needs.

The practice of Total Quality Management and Quality Control Systems is evident throughout the entire Hastings organization. Hastings' ISO 9001:2008 certification is another indicator that Hastings Premium Filters is serious about quality.

AIR



FILTRATION SOLUTIONS

HASTINGS
PREMIUM FILTERS®

Protecting your engine

Clean air is critical to the performance and life of all engines because even the smallest dust particles can cause damage. To protect your engine, the air filter removes dust, soot, carbon and abrasives. When the filter becomes plugged, too much fuel is burned for the amount of air, wasting fuel and causing the engine to lose power.

Most manufacturers specify minimum initial efficiency for air filters of at least 98.5%. Most Hastings air filters have minimum initial efficiencies approaching 99%. As dirt particles accumulate in the filter media, they increase the restriction and efficiency of the filter – making your filter work better during its useful life.

To improve dust holding capacity and air flow, Hastings uses two proven methods to separate and stabilize its pleated media.

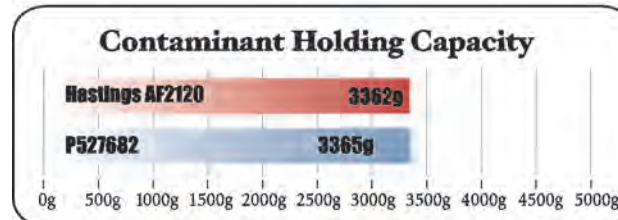
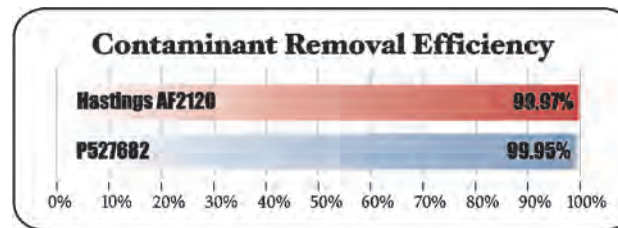
- **PermaPleat®** — an embossing process that forms dividers between pleats which prevents bunching and insures uniform air flow.
- **Beading** — a continuous bead of adhesive around the circumference of the filters metal wrap, either inner or outer, to lock the pleat tips in place and prevent movement.

Hastings Premium Filters offers more than 1,400 air filters – the majority of which feature our PermaPleat construction. Hastings filters supply the necessary protection for all engines.

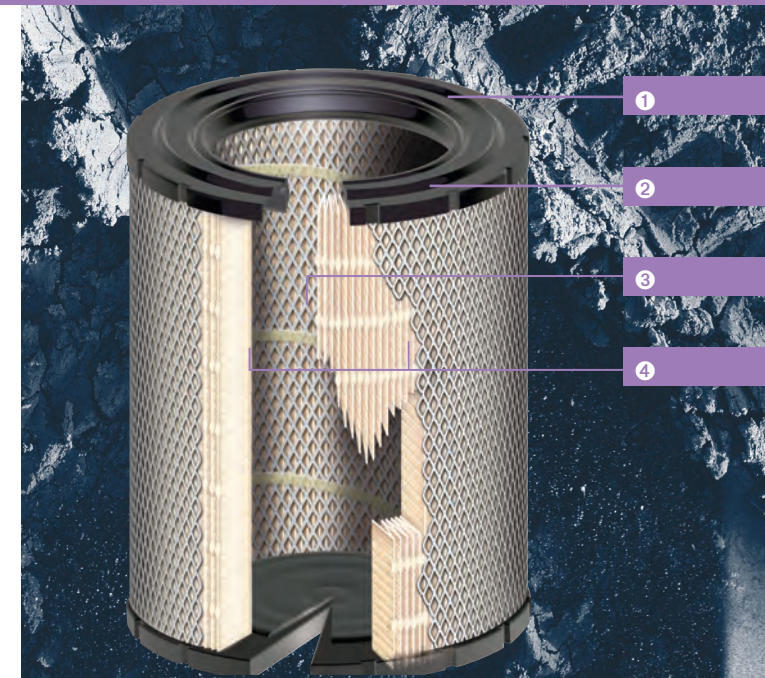
Maximum performance

Hastings Premium Filters designs and manufactures air filters to the exacting specifications set forth by engine and equipment manufacturers. To insure the highest quality product, we test our filters according to ISO 5011 test procedures — the industry standard for air filtration.

ISO 5011 testing shows that Hastings air filters meet or exceed minimum initial efficiency and maximum allowable initial restriction requirements determined by the manufacturer. The following product comparisons illustrate Hastings' superior performance.



ISO 5011 Test: Flow Rate 1325 SCFM, ISO Fine Test Dust, Termination at 30" of water.



- 1 **Heavy-Duty Radial Seal Gasket and End Cap**, formed from a special urethane compound, will not degrade under temperature extremes, changes in restriction or vibration.
- 2 **Flexible Outer Edges** allow deflection for easy insertion and removal in housings which have minimal clearance.
- 3 **PermaPleat Construction** provides even pleat spacing to prevent bunching and ensure maximum element life.
- 4 **Spiral Clue Binding** provides added pleat stability to optimize media effectiveness.

