

# Cat<sup>®</sup> UHE Air Filters



## Early Filtration Efficiency Provides Longer Engine Life

Cat UHE (Ultra High Efficiency) Air Filters feature a unique surface that extends filter life up to six times that of standard filters and benefits engine life. Caterpillar engineers its UHE Air Filters to provide best protection for your engine components.

- **Less dust ingested = reduced engine wear**—An immediate dust build-up on the filter's very fine synthetic surface creates a cake that reduces the amount of dust reaching the engine. UHE Air Filters are almost at peak efficiency when brand new.
- **Higher efficiency = less restriction**—The surface particle cake is more porous than standard dust-coated media fibers, allowing deeper fibers to filter longer while providing better air flow.
- **Less restriction = better engine performance and fuel economy**—It takes less power to pull in air so the engine "breathes" easier.
- **Longer filter life = reduced contamination**—Higher dust capacity reduces filter changes and the chance of contamination during service for even greater protection.



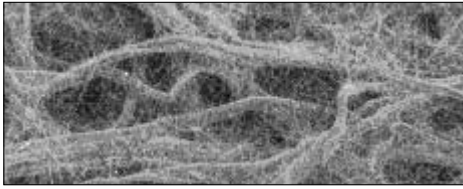
**CATERPILLAR<sup>®</sup>**

# Cat® UHE Air Filters

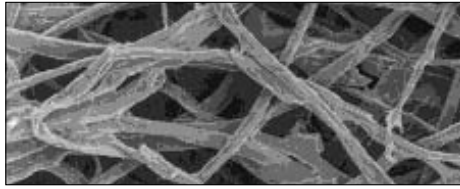
## More efficient early, more efficient overall

So-called "dirty" filters can be more efficient than new ones because dust cake buildup on the surface actually increases filtration. Designed with this concept in mind, UHE Air Filters feature a unique media. This media has a very fine synthetic surface layer that covers the entire outside diameter of the filter. Here's how it works:

- Fine particles (dust, heavy carbon/coal dust, soot, talc, etc.) immediately cake on the surface, quickly making the filter very efficient. Less dust gets to the engine, improving fuel economy while reducing wear and maintenance costs.
- Surface particle cake is more porous than dust-coated media, causing less restriction during filter life to improve capacity, engine performance, and fuel economy. In tests, air flow restriction through UHE Air Filter media increased at a lower rate than five other major brands.
- Because particles get trapped in the build-up on the surface of UHE Air Filters, the media stays permeable longer—unlike filters with standard media, which become dust-filled deep inside. This extends filter life and filtration efficiency up to six times that of standard media. Extending filter change intervals also means the engine will be exposed to less dust over its life.



Ultra High Efficiency Media



Standard Media

Filters with standard media (right) become dust-filled deep inside the media. Because particles get trapped in the particle build-up on the surface of UHE Filters (left), the media remains permeable longer—extending filter life and efficiency.

## Up to six times the life in fine dust or heavy carbon environments

UHE Filters work best in applications where extremely fine dust particles make up a high percentage of contaminants in the atmosphere or in operating conditions with high amounts of exhaust soot, which tends to plug normal filters at low hours.

Avoiding excessive dust on the job site may not be possible. Avoiding damage the dust can cause is possible with Cat UHE Air Filters.

## Get 100% of Filter Life

Use the Cat Air Filter Service Indicator to get an accurate, continuous reading of how much life remains in your filter. The easy-to-understand graduated readings let you change the filter only when needed. Over-servicing and under-servicing are eliminated, so you get the lowest possible cost per hour. See your Cat Dealer about retrofits on most Cat machines.



Caterpillar offers the best selection of UHE Air filters to cover your entire fleet of Cat equipment.

### AVAILABILITY

Standard Radial Seal	Ultra High Efficiency Radial Seal
6I-2499	132-7164
6I-2501	128-2686
6I-2503	132-7165
6I-0273	122-1674
6I-2505	122-1675
6I-2507	132-7166
6I-2509	132-7167
106-3969	132-7168
123-6855	132-7169
131-8822	134-0685
—	156-9328*
142-1339	220-0453
142-1340	220-0454
165-1689	220-0455
277-7838	277-7837

Standard Axial Seal	Ultra High Efficiency Axial Seal
4W-5716	132-7170
4W-5228	132-7171
1W-3637	132-7172
8N-6309	185-8786
9Y-7662	132-7173

\*950 G conical filter for severe applications

### Axial To Radial Seal Adapter Kit Cross Reference

Axial Primary Air Filter	Axial Secondary Filter	Radial Seal Adapter Kit	Radial Seal Primary	Radial Seal Secondary
7W-5389	2S-1285	6I-3828	6I-2499	6I-2500
7W-5389	8N-4901	6I-3829	6I-2499	6I-2500
7W-5317	2S-1286	6I-3830	6I-2501	6I-2502
7W-5317	9S-9972	6I-3831	6I-2501	6I-2502
7W-5316	8N-6883	6I-3831	6I-2503	6I-2504
7W-5316	2S-1287	6I-3830	6I-2503	6I-2504
7W-5495	1P-7360	6I-3832	6I-0273	6I-0274
7W-5313	1P-8482	6I-3833	6I-2505	6I-2506
7W-5313	6N-6444	6I-3833	6I-2507	6I-2508
7W-5216	7N-1308	6I-3833	6I-2509	6I-2510

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