



Perkins® Ecoplus fuel filters

The **difference** is in the **detail**

Protect your Perkins® 2000 Series engine with
our most advanced fuel filtration technology

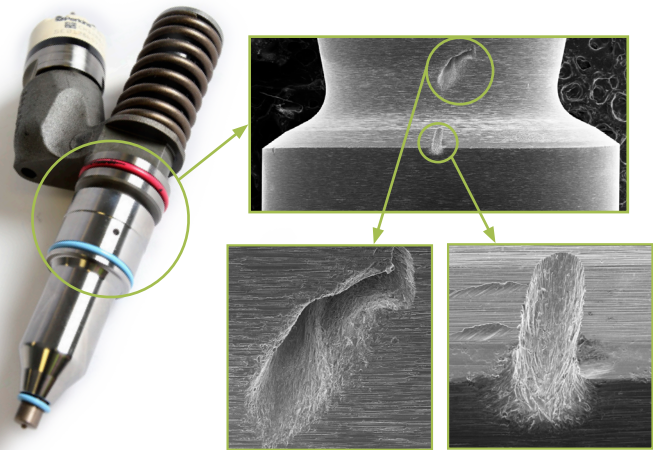
When choosing a fuel filter it's what's inside that counts, and the technology inside a Perkins® Ecoplus fuel filter has been protecting our 1100 and 1200 Series engines for more than two decades. Now we have added this technology to the Perkins® 2000 Series engines to help extend the life of critical engine components.

Today's diesel engines use components built with tighter tolerances and operate at higher temperatures and pressures than their predecessors, all of which makes clean fuel more important than ever. Even dirt and metal particles as small as five microns can damage fuel injectors and other key components and water can cause corrosion damage.

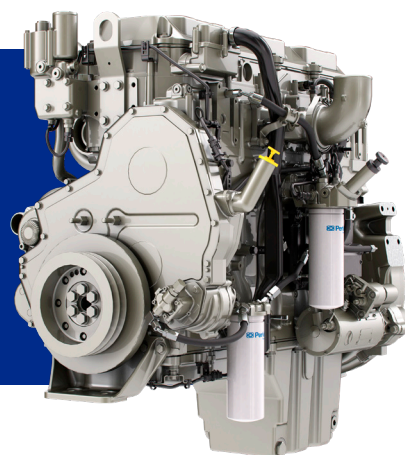
If the fuel filter does not perform effectively the consequences can include scoring and damaged injector valve seats, pump components and control valves. This damage can lead to increased fuel consumption, over-fueling, poor engine starting and improper idling as well as emission levels in excess of regulations.

The amount of wear on the injector valve seat is a clear indication of the level of fuel cleanliness and the effectiveness of the fuel filter. Even when the wear is only visible under an electron microscope it still can cause fuel to leak past the valve seat. Often this leakage is only noticed when it becomes extreme, with engine performance issues, misfires, poor idling, a smell of fuel or reduction in fuel economy. At this stage the only solution is to replace the injectors (see right).

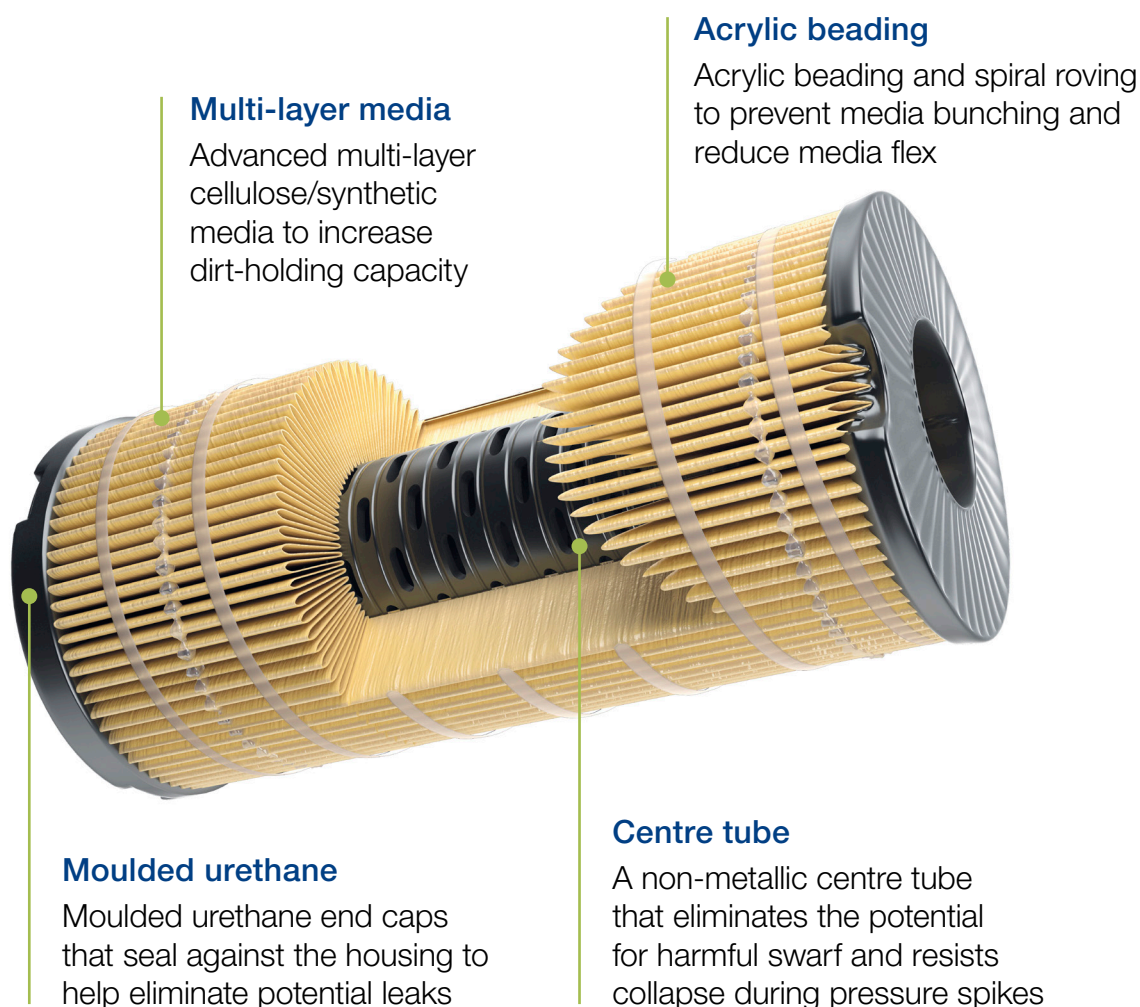
The effectiveness of a fuel filter can be affected by surges or changes in pressure in the fuel system, causing distortion to the fuel filter media. This distortion causes the media pleats to close up, reducing the surface area for filtration leading to poor particle retention and the closing and opening causes stress to the media itself with the potential for early life failure.



The Perkins Ecoplus technology in the 2000 Series fuel filters uses an engineered filter element inside the metal canister. This element uses fibreglass spiral roving to hold the media in place to prevent the pleats from flexing. Reducing flexing and movement of the filter pleats improves particle retention and holding capacity. And the addition of spiral roving has also been shown to increase resistance to collapse.



The key features of Ecoplus technology



The real cost of using a non-genuine filter may not show up immediately. But over time early hour component failures are likely to prove the wisdom of using only genuine Perkins Ecoplus fuel filters to protect your 2000 Series engine. They really are an effective defence against contaminants to safeguard your engine and extend the lifetime of your investment.

Don't risk downtime with anything else.

Find out more about the full Ecoplus range at: www.perkins.com/ecoplus