

 **MAGIRUS**

DRIVING THE FUTURE WITH HVC¹⁰⁰

The sustainable fuel for modern firefighting vehicles



 POWERED BY
HVC¹⁰⁰

HVO100

The environmentally friendly fuel for firefighting vehicles

HVO100 (Hydrotreated Vegetable Oil) is a synthetically produced fuel derived from vegetable and animal oils as well as fats. It is already available at many petrol stations under the umbrella term XTL. These raw materials primarily come from waste products of the food industry, such as used cooking oil and fat residues. Hydrogenation creates a chemically pure fuel, providing an environmentally friendly alternative to conventional diesel. HVO100 not only significantly reduces greenhouse gas

emissions, but also improves air quality and helps maintain a cleaner exhaust after-treatment system for longer. This makes HVO100 an ideal choice for use in firefighting vehicles, which frequently operate under extreme conditions. Approvals have already been granted for most chassis models by manufacturers, allowing existing fleets to operate more sustainably. For official information, please contact your authorised workshop or the manufacturer's service centre.

USE AT MAGIRUS

Since January 2025, all fire engines and turntable ladders have been initially fuelled with HVO100 for delivery. This underscores Magirus' commitment to sustainable and environmentally friendly solutions in the fire service. The decision to use HVO100 as the standard fuel for new vehicles demonstrates Magirus' dedication to promoting innovative and sustainable technologies while simultaneously reducing operating costs and maintenance requirements.



STORAGE STABILITY AND REFUELLING
HVO100 offers extended storage stability and does not require additives to prevent microbial contamination in the fuel tank (diesel bug). This makes it ideal for emergency and rescue vehicles and reserve fuel canisters, which often need to remain operational for long periods without refuelling. Additionally, HVO100 allows for flexible refuelling during operations without affecting existing fuel logistics.

REDUCED SOOT FORMATION AND PARTICULATE EMISSIONS
HVO100 significantly reduces soot formation and particulate emissions both at the incident scene and inside fire stations. This improves air quality and creates a cleaner working environment for emergency and rescue services. Firefighters are no longer exposed to harmful soot fumes, even during prolonged operations. Additionally, HVO100 has a much more pleasant scent, reminiscent of a paraffin wax candle.

COMBUSTION AND ENGINE PERFORMANCE
Thanks to improved combustion, the engine runs smoother and quieter. This creates a more comfortable working environment for firefighters, especially during long operations or when working in noisy surroundings.

EXCELLENT COLD-START PERFORMANCE
HVO100 ensures outstanding cold-start performance, even in low temperatures. This guarantees that firefighting vehicles remain reliable and ready for operation, even under extreme weather conditions.

LOWER CO₂ EMISSIONS
Compared to conventional diesel, HVO100 reduces CO₂ emissions by up to 90%. This significantly lowers the environmental footprint of firefighting vehicles and supports climate protection efforts.

YOUR CONTACT

MAGIRUS GMBH

Graf-Arco-Str. 30
89079 Ulm
Germany

info@magirusgroup.com
www.magirusgroup.com

MAGIRUS SUBSIDIARIES

MAGIRUS ITALIA S.R.L.

Via Attilio Franchi 23
25127 Brescia
Italy

magirus-italia@magirusgroup.com
www.magirusgroup.com

MAGIRUS CAMIVA S.A.S

686, Rue de Chantabord CS 82726
73026 Chambéry Cedex
France

magirus-camiva@magirusgroup.com
www.magirusgroup.com

MAGIRUS LOHR GMBH

Frikusweg 8
8141 Premstätten
Austria

magirus-lohr@magirusgroup.com
www.magirus-lohr.at

Images may include optional features. We reserve the right to make technical changes or improvements at any time without prior notice. Errors excepted.

SERVING HEROES. SINCE 1864.

