



# Synthetic fuels

## C.A.R.E. Diesel

**C.A.R.E. Diesel®** is mainly produced from residual and waste materials. This paraffinic diesel fuel in premium quality exceeds the requirements of conventional fuels by far and contributes to improving the ecological balance and reducing the dependence on fossil fuels. Due to the special manufacturing processes, it is low-emission, cold-stable, extremely storable and can be used immediately without any changes to logistics, tanks, vehicles or engines.

### C.A.R.E. Diesel® – innovative and sustainable

BIO – but NO biodiesel! Meets DIN 15940 and the American fuel standard ASTM D 975.



Comparison of burning behaviour of fossil fuels against C.A.R.E. Diesel

Synthetic fuels comply with EN 15940 and the American fuel standard ASTM D 975, while the European fuel standard EN 15940 defines the composition requirements for synthetic, paraffinic diesel fuels (so-called XTL fuels). Except for the density, which at XTL is approx. 5% below the limit for diesel, all other requirements from EN 590 (commercial diesel) are clearly exceeded. Fuels according to EN 15940 also meet the American fuel standard ASTM D975, which does not stipulate a minimum density.

C.A.R.E. Diesel® is a high-performance fuel that is produced predominantly from residual and waste materials using a special process. C.A.R.E. Diesel® is a paraffinic fuel according to EN 15940 and has a material structure that is essentially similar to that of fossil diesel. However, because it contains no harmful components at all, it exceeds the specifications of all diesel fuels currently available at filling stations by far.

The basic substance of C.A.R.E. Diesel®, HVO is added to their premium diesel by leading mineral oil producers in quantities of up to 20%.

This results in considerable advantages for users, which only the high-performance fuel C.A.R.E. Diesel® offers:

- **significantly reduced soot development** during combustion
- **reduced greenhouse gas emissions of up to 92 %** over the entire product life cycle
- **cold-resistant down to -22° C (down to -38° C possible)**
- **resistant** to infestation with microorganisms (**diesel plague**)
- **hardly noticeable ageing** compared to fossil diesel
- significantly **less nitrogen oxides, particulate matter, carbon dioxide, hydrocarbons** in engine combustion
- audibly **reduced noise emissions**

Compliance with the stricter specifications of the standard for paraffinic fuels ensures the special product quality and ensures the exceptional experience with these fuels. In practice, C.A.R.E. Diesel® and Shell GTL Fuel are almost indistinguishable. In the future, fuels produced from renewable electricity, so-called E-Fuels, will also be added. These will have similarly good properties. Mixtures in any ratio are also possible, so that there are no limits to the increasing proportion of renewable fuels, as is the case with diesel and biodiesel.

Sources: <https://toolfuel.eu/spezifikationen-paraffinischer-dieselmotoren-im-ueberblick>  
<https://www.sonderkraftstoff24.de/Produkte/Sonderkraftstoff/Geraetebenzin/Dieselmotoren/CARE-Diesel-Sonderkraftstoff-HVO-Diesel>