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| TNI | **Automobilové palivá<br>Parafinická nafta a jej zmesi s FAME<br>Podstata požadovaných parametrov, príslušné medzné hodnoty a ich stanovenie** | **TNI<br>CEN/TR 16389<br><br>65 6538** |
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Automotive fuels - Paraffinic diesel fuel and blends with FAME - Background to the parameters required and their respective limits and determination

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 16389:2025.
This Technical standard information includes the English version of CEN/TR 16389:2025.

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# CEN/TR 16389

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English Version

# Automotive fuels - Paraffinic diesel fuel and blends with FAME - Background to the parameters required and their respective limits and determination

Carburants pour automobiles - Gazole paraffinique et mélanges d'EMAG - Historique sur la définition des paramètres requis, de leurs limites et de leurs déterminations respectives

Kraftstoff für Kraftfahrzeuge - Paraffinischer Dieselkraftstoff und Kraftstoff-Mischungen - Hintergrund zu den erforderlichen Parametern, den entsprechenden Grenzwerten und deren Bestimmung

This Technical Report was approved by CEN on 30 June 2025. It has been drawn up by the Technical Committee CEN/TC 19.

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# European foreword

This document (CEN/TR 16389:2025) has been prepared by Technical Committee CEN/TC 19 “Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin”, the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TR 16389:2023.

The fourth version of this document has been updated after the revision of EN 15940:2023. In this update, several editorial and technical improvements have been made.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

# 1 Scope

This document explains the requirements and test methods for paraffinic diesel fuel from synthesis or hydrotreatment containing up to 7,0 % (V/V) Fatty Acid Methyl Ester (FAME). Synthesis refers to XTL processes where X refers to various feedstocks for example Gas (G), Biomass (B) or Coal (C) and TL stands for To-Liquid. In this document the term hydrotreatment includes all catalytic processes where hydrogen is used. Hydrotreatment of oils and fats from plant, animal or any other biological origin yield paraffinic diesel fuel for example Hydrotreated Vegetable Oil (HVO) or Hydroprocessed Esters and Fatty Acids (HEFA). Paraffinic diesel fuel can be blended with up to 7,0 % (V/V) fatty acid methyl ester (FAME). This document provides background information to the final text of EN 15940:2023 [1] and gives guidance and explanations to the producers, blenders, marketers and users of paraffinic automotive diesel fuel.

Paraffinic diesel fuel is a high quality, clean burning fuel with virtually no sulfur and aromatics. Paraffinic diesel fuel can be used in diesel engines, also to reduce regulated emissions. In order to have the greatest possible emissions reduction, a specific calibration is needed. Some types of paraffinic diesel fuel, at present notably HVO, can also offer a meaningful contribution to the target of increased non-crude derived and/or renewable content in the transportation fuel pool.

For general diesel engine operation, durability and warranty, paraffinic automotive diesel fuel needs a validation step to confirm the compatibility of the fuel with the vehicle, which for some existing engines still needs to be done. The vehicle manufacturer needs to be consulted before use.

NOTE 1 This document is directly related to EN 15940 and will be updated once further publications take place.

NOTE 2 Paraffinic diesel fuel is also used as a blending component in automotive diesel fuel. In that case, composition and properties of the final blends are defined by relevant fuel specification standards.

NOTE 3 For the purposes of this document, the terms “% (m/m)” and “% (V/V)” are used to represent respectively the mass fraction and the volume fraction.

# 2 Normative references

There are no normative references in this document.