

# ILNAS

Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

**ILNAS-EN 590:1999**

## **Automotive fuels - Diesel - Requirements and test methods**

Carburants pour automobiles -  
Combustible pour moteur diesel (gazoile)  
- Exigences et méthodes d'essai

Kraftstoffe für Kraftfahrzeuge -  
Dieselkraftstoff - Mindestanforderungen  
und Prüfverfahren

**11/1999**



## National Foreword

This European Standard EN 590:1999 was adopted as Luxembourgish Standard ILNAS-EN 590:1999.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

<https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html>

### **THIS PUBLICATION IS COPYRIGHT PROTECTED**

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

EUROPEAN STANDARD ILNAS-EN 590:1999 **EN 590**  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

November 1999

ICS 75.160.20

Supersedes EN 590:1998

English version

## Automotive fuels - Diesel - Requirements and test methods

Carburants pour automobiles - Combustible pour moteur  
diesel (gazole) - Exigences et méthodes d'essai

Kraftstoffe für Kraftfahrzeuge - Dieseldieselkraftstoff -  
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 29 October 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

ILNAS-EN 590:1999 - Preview only Copy via ILNAS e-Shop



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by NNI.

This European Standard replaces EN 590:1998.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2000, and conflicting national standards shall be withdrawn at the latest by May 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Significant technical changes between this European Standard and the previous edition are:

- Requirements of the European Fuels Directive 98/70/EC have been included on cetane number, density, distillation, polycyclic aromatic hydrocarbons, sulfur as well as references to test methods, including years of publication;
- The informative annex A has been added.

In this standard annex A is informative.

## 1 Scope

This European Standard specifies requirements and test methods for marketed and delivered automotive diesel fuel. It is applicable to automotive diesel fuel for use in diesel engine vehicles designed to run on automotive diesel fuel.

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

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 116, *Diesel and domestic heating fuels - Determination of cold filter plugging point.*

EN ISO 2160, *Petroleum products - Corrosiveness to copper - Copper strip test.*

EN ISO 3104, *Petroleum products - Transparent and opaque liquids - Determination of kinematic viscosity and calculation of dynamic viscosity.*

EN ISO 3170, *Petroleum liquids - Manual sampling.*

EN ISO 3171, *Petroleum liquids - Automatic pipeline sampling.*

prEN ISO 3405:1998, *Petroleum products - Determination of distillation characteristics.* (ISO/DIS 3405:1998)

EN ISO 3675:1998, *Crude petroleum and liquid petroleum products - Laboratory determination of density or relative density - Hydrometer method.* (ISO 3675:1998)

EN ISO 4259:1995, *Petroleum products - Determination and application of precision data in relation to methods of test.* (ISO 4259:1993)

EN ISO 4264, *Petroleum products - Distillate fuels - Calculation of cetane index.*

EN ISO 5165:1998, *Diesel fuels - Determination of ignition quality - Cetane method.* (ISO 5165:1998)

EN ISO 6245, *Petroleum products - Determination of ash.*

EN ISO 8754:1995, *Petroleum products - Determination of sulfur content - Energy-dispersive X-ray fluorescence method.* (ISO 8754:1992)

EN ISO 10370, *Petroleum products - Determination of carbon residue (micro method).*

EN ISO 12185:1996, *Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method.*

EN ISO 12205, *Petroleum products - Determination of the oxidation stability of distillate fuels.*