| | Benzínové palivá pre malé spaľovacie motory Požiadavky a skúšobné metódy | STN EN 17867+A1 |
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English Version

Petrol fuel for small internal combustion engines - Requirements and test methods

Essence pour petits moteurs à combustion interne -Exigences et méthodes d'essai Ottokraftstoff für Kleinmotoren - Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 7 May 2023 and includes Amendment 1 approved by CEN on 20 February 2025.

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

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| Cont | ents | Page |
|----------------------------|---|----------|
| Europ | ean foreword | 3 |
| Introd | Introduction | |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms and definitions | 6 |
| 4 | Pump marking | 7 |
| 5 5.1 5.2 | Requirements and testingGeneral requirements | 7 |
| 5.3 5.4 | Dyes and markers | 7 |
| 5.4.1 5.4.2 5.4.3 | Metallic octane boostersPhosphorus | 7 |
| 5.4.5 5.5 5.6 | Generally applicable requirements and test methods | 7 |
| 5.6 5.7 5.8 | Expression of results for the octane number Precision and case of dispute | 9 |
| 5.8.1 5.8.2 | Resolution of disputes | 10 |
| Annex | A (normative) A method for separating the oil fraction | 11 |
| Annex B.1 B.2 B.3 | B (normative) Determination of oil content volume in petrol for two-stroke engines General Procedure Precision | 12 12 |
| Annex | C (normative) Pump labelling | 13 |
| Bibliog | graphygraphy | 14 |

European foreword

This document (EN 17867:2023+A1:2025) 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.

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of an identical text or by endorsement, at the latest by October 2025, and conflicting national standards shall be withdrawn at the latest by October 2025.

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 includes Amendment 1 approved by CEN on 20 February 2025.

A) This document supersedes EN 17867:2023. (A)

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{\mathbb{A}}$ $\boxed{\mathbb{A}}$.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document is intended to provide a standardized quality for petrol fuels for small engines, with the purpose to reduce engine emissions for workers safety and environmental reasons and to extend the lifetime of devices. (A)

Petrol fuels from an alkylate production process as specified in this document are mainly composed of paraffinic hydrocarbons, contain only small amounts of olefins and are substantially free of aromatic compounds, especially benzene. They are oxygen free, low in sulfur and are mainly used for small engines (chain saws, mowing machines etc.) requiring pure petrol fuels or petrol fuels with an admixture of engine oil depending on the design of the engine. Typically these fuels are produced in alkylation units but other production methods are possible.

This document describes both a petrol fuel for externally lubricated four-stroke engines and a petrol fuel for mixture-lubricated engines containing a lubricating oil component.

1 Scope

This document specifies requirements on petrol fuel for use as fuel in small engines, together with the methods to be applied for testing these properties.

This document specifies requirements for two types of petrol fuel having low aromatics and sulfur content:

- one type for use in four-stroke engines with separate lubrication; and
- one mixed petrol fuel type for use in mixture-lubricated engines.

Testing the properties of the added engine oil is out of the scope of this document.

NOTE 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

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13016-1:2018, Liquid petroleum products - Vapour pressure - Part 1: Determination of air saturated vapour pressure (ASVP) and calculated dry vapour pressure equivalent (DVPE)

EN 13016-3:2018, Liquid petroleum products - Vapour pressure - Part 3: Determination of vapour pressure and calculated dry vapour pressure equivalent (DVPE) (Triple Expansion Method)

EN 16942, Fuels - Identification of vehicle compatibility - Graphical expression for consumer information

EN ISO 2160, Petroleum products - Corrosiveness to copper - Copper strip test (ISO 2160)

EN ISO 3405:2019, Petroleum and related products from natural or synthetic sources - Determination of distillation characteristics at atmospheric pressure (ISO 3405:2019)

EN ISO 3675, Crude petroleum and liquid petroleum products - Laboratory determination of density - Hydrometer method (ISO 3675)

EN ISO 4259-2, Petroleum and related products - Precision of measurement methods and results - Part 2: Interpretation and application of precision data in relation to methods of test (ISO 4259-2)

EN ISO 5163:2014, Petroleum products - Determination of knock characteristics of motor and aviation fuels - Motor method (ISO 5163:2014)

EN ISO 5164:2014, Petroleum products - Determination of knock characteristics of motor fuels - Research method (ISO 5164:2014)

EN ISO 6246:2017¹, Petroleum products - Gum content of fuels - Jet evaporation method (ISO 6246:2017)

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

EN ISO 20846:2019, Petroleum products - Determination of sulfur content of automotive fuels - Ultraviolet fluorescence method (ISO 20846:2019)

EN ISO 20884:2019, Petroleum products - Determination of sulfur content of automotive fuels - Wavelength-dispersive X-ray fluorescence spectrometry (ISO 20884:2019)

¹ As impacted by EN ISO 6246:2017/A1:2019.

EN ISO 22854:2021, Liquid petroleum products - Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel - Multidimensional gas chromatography method (ISO 22854:2021)

ISO 13738, Lubricants, industrial oils and related products (class L) - Family E (Internal combustion engine oils) - Specifications for two-stroke-cycle gasoline engine oils (categories EGB, EGC and EGD)

ASTM D5134, Standard Test Method for Detailed Analysis of Petroleum Naphthas through n-Nonane by Capillary Gas Chromatography

JASO M345, Two-stroke-cycle gasoline engine - Engine oils - Classifications

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