



NSAI
Standards

Standard Recommendation
S.R. CEN/TS 15293:2011

Automotive fuels - Ethanol (E85) automotive fuel - Requirements and test methods

S.R. CEN/TS 15293:2011

Incorporating amendments/corrigenda/National Annexes issued since publication:

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English Version

Automotive fuels - Ethanol (E85) automotive fuel - Requirements and test methods

Carburants pour automobiles - Carburant pour automobiles
Ethanol (E85) - Exigences et méthodes d'essai

Kraftstoff für Kraftfahrzeuge - Ethanolkraftstoff (E85) für
Kraftfahrzeuge - Anforderungen und Prüfverfahren

This Technical Specification (CEN/TS) was approved by CEN on 28 September 2010 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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Foreword

This document (CEN/TS 15293:2011) 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 [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/CWA 15293:2005.

Significant technical changes between this European Standard and the CEN Workshop agreement are:

- the fuel requirements do allow the car manufacturers to optimize the ignition setting over the whole range of 0 % (V/V) to 85 % (V/V) of ethanol, whereas former limits of for instance vapour pressure and MON/RON were calculated on the basis of the percentage. This should give the user the benefit of the improved octane of the alcohol, even though some limits are set as indicative pending further field data;
- the requirements towards contaminants originating mainly from ethanol are aligned with the meanwhile published EN 15376. As alignment of units for elemental contaminants is pursued, a mean density value of 0,78 g/cm³ has been used;
- the specification has been set to allow for the use of denatured and undenatured ethanol as a blending component, depending on national legislation;
- newly developed ethanol test methods are used, which show a better applicability to Ethanol (E85) automotive fuel. Most of the test methods have been assessed for their effective applicability;
- the climate requirements do allow different percentages of ethanol to be blended, based on field experience, of which some limits are still under study.

Furthermore, some of the determination methods referenced are still being investigated in terms of correct application and precision. This, and the fact that production processes need to be assessed on possibility to achieve the required or future limits, underlines the choice for a CEN Technical Specification as an intermediate step.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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