



BSI Standards Publication

Automotive fuels — LPG — Requirements and test methods

National foreword

This British Standard is the UK implementation of EN 589:2018+A1:2022. It supersedes BS EN 589:2018, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee PTI/15, Natural Gas and Gas Analysis.

A list of organizations represented on this committee can be obtained on request to its committee manager.

BSI, as a member of CEN, is obliged to publish EN 589:2018 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee voted against its approval.

The UK committee voted negatively as EN 589:2018 references ASTM D6667-14 for the testing of total volatile sulphur in LPG. The UK committee does not consider ASTM D6667-14 to support the new proposed limit of 30 mg/kg outlined in EN 589:2018.

The UK committee draws users' attention to National Annexes NA, NB and NC, which provide further guidance to assist users in the application of this standard.

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Amendments/corrigenda issued since publication



Documents

Document Sharing Hub

Date	Text affected
31 October 2022	Implementation of CEN amendment A1:2022; National foreword amended and National Annexes NA, NB and NC added

English Version

Automotive fuels - LPG - Requirements and test methods

Carburants pour automobiles - GPL - Exigences et
méthodes d'essai

Kraftstoffe - Flüssiggas - Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 19 October 2018 and includes Amendment 1 approved by CEN on 6 January 2022.

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European foreword

This document (EN 589:2018+A1:2022) 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of an identical text or by endorsement, at the latest by August 2022, and conflicting national standards shall be withdrawn at the latest by August 2022.

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 A1 EN 589:2018 A1.

This document includes Amendment 1 approved by CEN on 6 January 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This is the 7th edition of EN 589. The main technical changes include:

- a) reduction of the sulfur limit value to 30 mg/kg;
- b) removal of ASTM D 3246, sulfur determination by oxidative microcoulometry, as being incapable of measuring that level;
- c) addition of single limit value for propane in Table 1;
- d) addition of a single limit value for 1,3 butadiene in Table 1 due to CLP requirements [5];
- e) A1 introduction of new test methods for the determination of 1,3 butadiene and hydrocarbon composition (DIN 51619), of low levels of sulfur content (EN 17178) and of evaporation residue (EN 16423) A1;
- f) addition of Clause 7 “Remarks concerning vehicle application issues like residues in vaporizers or injectors”;
- g) permission to use alternative odour tests added to sub-clause 6.3. The odour test according to Annex A is not a precise test method with any given precision. Odour is subjectively perceived, not measured. For this reason it is hard to define a referee method;
- h) inclusion of reference to EN 16942 regarding pump marking in line with the requirements set by the new Directive 2014/94/EU [1].

A1 The following is a list of significant technical changes between this amendment EN 589:2018/A1:2022 and the actual European Standard, EN 589:2018:

- update of revised test method standards;
- adjustment of vapour pressure reporting format to the format required by the test methods EN ISO 8973 and Annex C;

- removal of the increase of the propane content by 2022-05-01;
- modification of the footnote to table g to Table 1 on the performance requirement. 

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.

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