

DIN EN 228



ICS 75.160.20

Supersedes
DIN EN 228:2014-10

**Automotive fuels –
Unleaded petrol –
Requirements and test methods;
English version EN 228:2012+A1:2017,
English translation of DIN EN 228:2017-08**

Kraftstoffe –
Unverbleite Ottokraftstoffe –
Anforderungen und Prüfverfahren;
Englische Fassung EN 228:2012+A1:2017,
Englische Übersetzung von DIN EN 228:2017-08

Carburants pour automobiles –
Essence sans plomb –
Exigences et méthodes d'essai;
Version anglaise EN 228:2012+A1:2017,
Traduction anglaise de DIN EN 228:2017-08

Document comprises 23 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN 228:2013+A1:2017) has been prepared by Technical Committee CEN/TC 19 “Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin” (Secretariat: NEN, Netherlands).

The responsible German body involved in its preparation was *DIN-Normenausschuss Materialprüfung* (DIN Standards Committee Materials Testing), Working Committee NA 062-06-32 AA “Requirements for liquid fuels” (Standardization Committee for Petroleum, Fuels, Lubricants and Related Products).

This standard includes Amendment A1 approved by CEN on 17 March 2017.

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

Amendments

This standard differs from DIN EN 228:2014-10 as follows:

- a) the marking at the pump of this product is in line with the requirements of the Fuels Quality Directive and the Alternative Fuels Infrastructure Directive;
- b) 5.1.2 “Other (bio-) components” has been included;
- c) references and test methods have been updated.

Previous editions

DIN 51607: 1984-07, 1985-06, 1988-01, 1989-08

DIN EN 228: 1993-05, 1999-02, 2000-02, 2004-03, 2008-11, 2013-01, 2014-10

DIN EN 228 Corrigendum 1: 2006-03

National Annex NA (informative)

Bibliography

DIN 51750-1:1990-12, *Sampling of petroleum products — General information*

DIN 51750-2:1990-12, *Sampling of liquid petroleum products*

DIN EN 14275, *Automotive fuels — Assessment of petrol and diesel fuel quality — Sampling from retail site pumps and commercial site fuel dispensers*

BImSchV 10, *Zehnte Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Verordnung über die Beschaffenheit und die Auszeichnung der Qualitäten von Kraftstoffen — 10. BImSchV)* (Tenth ordinance on the implementation of the Federal Immission Control Act (Ordinance on the quality and marking of fuels)) of 08 December 2010, BGBl (German Federal Law Gazette) I, 2010, No. 62, pp. 1849–1861^{*)}

^{*)} Registered in the *DITR* database of *DIN Software GmbH*, obtainable from: *Beuth Verlag GmbH*, 10772 Berlin (Postal address: Burggrafenstr. 6, 10787 Berlin).

National Annex NB (normative)

National specifications concerning clauses 3, 4 and 5

NB.1 Sampling

Samples shall be taken in accordance with DIN 51750-1:1990-12 and DIN 51750-2:1990-12. DIN EN 14275 is to be taken into consideration when taking samples from filling stations.

NB.2 Pump marking

Pump marking shall be as in BImSchV 10.

NB.3 Requirements regarding knock characteristics of “super plus” unleaded petrol

In addition to the specifications of Table 1 and Table 2, the following requirements regarding the knock characteristics of “super plus” unleaded petrol apply:

- RON at least 98,0
- MON at least 88,0

All other requirements are identical to those for “super” unleaded petrol.

NB.4 Volatility requirements

See also Figure 1 and Table 4.

From 1 May to 30 September Class A (summer) values shall apply.

From 16 November to 15 March Class D (winter) values shall apply.

From 1 October to 15 November and 16 March to 30 April Class D1 values shall apply. In these transition periods, mixtures of Classes D1 and A are permitted. In this process, values shall not go below the lower limit value specified for Class A and the upper limit value specified for Class D1 shall not be exceeded.