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**SANS 1598:2014**

Edition 3

## **SOUTH AFRICAN NATIONAL STANDARD**

### **Automotive fuels — Requirements and test methods for petrol**

**WARNING**

This document references other documents normatively.

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### Table of changes

Change No.	Date	Scope

### Foreword

This South African standard was approved by National Committee SABS/TC 028/SC 03, *Petroleum products, biofuels and lubricants – Fuels*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in December 2014.

This document supersedes SANS 1598:2006 (edition 2).

#### **This document is referenced in the Petroleum Products Act, 1977 (Act No. 120 of 1977).**

Reference is made in 3.3 to the "relevant national legislation". In South Africa, this means the Regulations of the Petroleum Product Act, 1977 (Act No. 120 of 1977), as published by Government Notice No. R. 627 (Government Gazette No. 28958) of 23 June 2006.

Reference is made in 3.4 to the "relevant national legislation". In South Africa, this means the Regulations of the Petroleum Product Act, 1977 (Act No. 120 of 1977), as published by Government Notice No. R. 431 (Government Gazette No. 35410) of 1 June 2012.

Annexes A to E are for information only.

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## **Automotive fuels — Requirements and test methods for petrol**

### **1 Scope**

This standard specifies requirements and test methods for marketed and delivered petrol grades suitable for use in spark-ignition internal-combustion engines excluding aviation piston engines.

### **2 Normative references**

The following referenced documents are indispensable for the application 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. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

ASTM D86, *Standard test method for distillation of petroleum products at atmospheric pressure.*

ASTM D130, *Standard test method for corrosiveness to copper from petroleum products by copper strip test.*

ASTM D323, *Standard test method for vapor pressure of petroleum products (Reid method).*

ASTM D381, *Standard test method for gum content in fuels by jet evaporation.*

ASTM D525, *Standard test method for oxidation stability of gasoline (induction period method).*

ASTM D873, *Standard test method for oxidation stability of aviation fuels (potential residue method).*

ASTM D1298, *Standard test method for density, relative density, or API gravity of crude petroleum and liquid petroleum products by hydrometer method.*

ASTM D1319, *Standard test method for hydrocarbon types in liquid petroleum products by fluorescent indicator adsorption.*

ASTM D2622, *Standard test method for sulfur in petroleum products by wavelength dispersive X-ray fluorescence spectrometry.*

ASTM D2699, *Standard test method for research octane number of spark-ignition engine fuel.*

ASTM D2700, *Standard test method for motor octane number of spark-ignition engine fuel.*

ASTM D3227, *Standard test method for (thiol mercaptan) sulfur in gasoline, kerosine, aviation turbine, and distillate fuels (potentiometric method).*

ASTM D3231, *Standard test method for phosphorus in gasoline.*