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SOUTH AFRICAN NATIONAL STANDARD

Automotive fuels — Requirements and test methods for diesel

WARNING

This document references other documents normatively.

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Table of changes

Change No.	Date	Scope
Amdt 1	2016	Amended to update the foreword, referenced standards and definitions.

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 2016.

This document supersedes SANS 342:2014 (edition 5).

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

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

Amdt 1

| Reference is made in the note to 3.3 to "relevant national department". In South Africa this means the Department of Energy.

Amdt 1

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

Amdt 1

| Reference is made in the note to 3.4 to "relevant national department". In South Africa this means the Department of Energy.

Amdt 1

Reference is made in 4.4 to the "relevant national legislation". In South Africa, this means the Petroleum Products Act, 1977 (Act No. 120 of 1977).

Annex A is for information only.

Compliance with this document cannot confer immunity from legal obligations.

Contents

	Page
Foreword	
1 Scope	3
2 Normative references	3
3 Definitions	7
4 Requirements	8
4.1 General.....	8
4.2 Automotive diesel fuel.....	8
4.3 Additives.....	8
4.4 Biodiesel blending.....	9
5 Sampling and methods of test.....	12
5.1 Sampling.....	12
5.2 Methods of test	12
6 Logistic requirements	12
6.1 Packing and transport.....	12
6.2 Classification and labelling.....	12
6.3 Storage equipment for diesel.....	13
Annex A (informative) Quality verification of automotive diesel fuel	14
Bibliography	14

SANS 342:2016
Edition 5.1

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Automotive fuels — Requirements and test methods for diesel

1 Scope

This standard specifies the grades of automotive diesel fuel containing up to a volume fraction of 5 % of automotive biodiesel in accordance with SANS 1935, and suitable for use in compression-ignition engines, including high-speed 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 and liquid fuels at atmospheric pressure.*

ASTM D93, *Standard test methods for flash point by Pensky-Martens closed cup tester.*

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

ASTM D445, *Standard test method for kinematic viscosity of transparent and opaque liquids (and the calculation of dynamic viscosity).*

ASTM D482, *Standard test method for ash from petroleum products.*

ASTM D613a, *Standard test method for cetane number of diesel fuel oil.*

ASTM D976, *Standard test methods for calculated cetane index of distillate fuels.*

ASTM D1298b, *Standard test method for density, relative density, or API gravity of crude petroleum and liquid petroleum products by hydrometer method.*

ASTM D2274, *Standard test method for oxidation stability of distillate fuel oil (accelerated method).*

ASTM D2425, *Standard test method for hydrocarbon types in middle distillates by mass spectrometry.*

ASTM D2500, *Standard test method for cloud point of petroleum products.*