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SOUTH AFRICAN NATIONAL STANDARD

Industrial fuel oil for burner applications

WARNING

This standard 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 SC 1018A, *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 published in February 2014.

This document supersedes CKS 141:1978 and CKS 142:1989.

Reference is made in 4.6 and table 1 to the "relevant national body". In South Africa, this means the South African Revenue Service (SARS).

Reference is made in tables 1, 2 and 3 to the "relevant national legislation". In South Africa, this means the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004).

Annex C forms an integral part of this document. Annexes A and B are for information only.

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Industrial fuel oil for burner applications

1 Scope

1.1 This standard specifies requirements and test methods for three categories with multiple grades of industrial fuel oils for burner use.

1.2 This standard does not apply to marine and internal combustion engine applications, such as turbine 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 D93, *Standard test methods for flash point by Pensky-Martens closed cup tester.*

ASTM D95, *Standard test method for water in petroleum products and bituminous materials by distillation.*

ASTM D97, *Standard test method for pour point of petroleum products.*

ASTM D129, *Standard test method for sulfur in petroleum products (general high pressure decomposition device method).*

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

ASTM D240, *Standard test method for heat of combustion of liquid hydrocarbon fuels by bomb calorimeter.*

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

ASTM D473, *Standard test method for sediment in crude oils and fuel oils by the extraction method.*

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

ASTM D664a, *Standard test method for acid number of petroleum products by potentiometric titration.*

ASTM D974, *Standard test method for acid and base number by color-indicator titration.*