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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 25989-2010

**Fuel oils for burners
(English Translation)**

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Foreword

This standard Chapter 4 in Table 1 fraction type furnace fuel oil item 1, item 2, item 3, item 4 and 5 is a strong technical requirements

Made of the residue type furnace fuel oil item 1, item 2, item 3 and item 6 mandatory technical requirements, the rest are recommended.

This standard and "fuel oil" specifications (in English) the degree of consistency of

American Society for Testing and Materials ASTM D396-05 non

Equivalent.

This standard was proposed by the National Petroleum Products and Lubricants Standardization Technical Committee (SAC/TC280).

This standard by the National Standardization Technical Committee of petroleum products lubricants oil and lubricants and fuels Technical Committee (SAC/TC280 /

SC1) centralized.

Drafted by. China Petroleum & Chemical Corporation Research Institute of Petroleum, China National Petroleum Corp.

Refining and Marketing Company.

1 Scope

This standard specifies the petroleum-6 prepared two grades of furnace fuel oil product classification and labeling, requirements and test methods,

Inspection rules, marking, packaging, transportation and storage and security.

This standard applies to all kinds owned commercial or industrial fuel oil burners.

2 Normative references

Terms of the following documents become provisions of this standard by reference in this standard. For dated reference documents, all later

Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to agreements based on this standard

Whether the latest versions of these documents. For undated references, the latest version applies to this standard.

GB 190 dangerous goods packaging logo

GB/T 259 Petroleum products - Determination of water-soluble acid and alkali

GB T 261 Flash Point/Pensky - Martens closed cup method (GB/T 261-2008, ISO 2719.2002, MOD)

GB/T 265 Petroleum products Determination of kinematic viscosity and calculation of dynamic viscosity

GB/T 267 Petroleum products - Determination of flash and fire point (open cup method)

GB/T 387 Black petroleum products - Determination of sulfur content (tubular furnace)

GB/T 508 Petroleum products - Determination of ash (GB/T 508-1985, neqISO 6245. 1982)

GB/T 1884 Density of crude oil and liquid petroleum products laboratory assay
(densitometer method) (GB/T 1884-2000, eqv

ISO 3675.1998)

GB/T 1885 Petroleum Measurement Tables (GB/T 1885-1998, eqvISO 91-2.1991)

GB/T 3535 Petroleum products - Determination of pour point (GB/T 3535-2006, ISO
3016-1994, MOD)

GB/T 4756 liquid petroleum manual sampling method (GB/T 4756-1998, eqvISO 3170.
1988)

GB/T 6533 Crude Oil and water precipitate assay (centrifugation)

GB/T 6536 Petroleum products - Determination of distillation

GB/T 7304 Petroleum products and lubricants - Determination of acid method
(potentiometric titration)

GB/T 11137 Black petroleum products - Determination of kinematic viscosity
(countercurrent method) and calculation of dynamic viscosity

GB/T 12692.1 petroleum fuel products (F Class) General Part 1 Classification

Classification and signs GB 13690 commonly used hazardous chemicals

GB/T 17040 Petroleum and petroleum products Determination of sulfur content - Energy
Dispersive X-ray Fluorescence Spectrometry

SH0164 petroleum products, packaging, storage and delivery acceptance rules

SH/T 0172 Petroleum products - Determination of sulfur content (a high temperature
method)

3.1 Products

The standard according to GB/T 12692.1 into the furnace fuel oil fraction and residue type
two types, various types of products in accordance with the kinematic viscosity breakdown,

Fraction type is divided into two grades, the residue was divided into four grades type.

3.2 Product Code

This standard furnace fuel oil product code as follows.

F-

F- behalf of fuels

D represents a fraction type, R-type residue representatives

1,2,3,4 product performance digital distinguishing mark

Example. F-R3 Representative viscosity of 25.0mm²/s ~ 50mm²/s fuel type residue

3.3 Product labeling

Furnace fuel oil products can be labeled as. Product Code Product Name Standard No.

Example. F-R3 furnace fuel GB 25989

4.1 General requirements

Fuel specified in this standard is homogeneous hydrocarbon oils, containing inorganic acid, an excess of non-fibrous material or extraneous solid material.

Under normal storage conditions, fuel oil residue containing ingredients can be homogenized, not by gravity into various grades of viscosity range exceeding

The severity of the two components.

4.2 technical requirements and test methods

Table 1 furnace technical requirements and test methods for fuel oil.

Table 1 furnace fuel requirements for technical

project

Type Type residue fraction

F-D1 F-D2 F-R1 F-R2 F-R3 F-R4

experiment method

Kinematic viscosity/(mm²/s)

40 °C

100 °C

> 5.5 to 24.0

5.0 to 15.0

> 15.0 - 25.0

> 25.0 to 50

> 50 to 185

GB/T 265