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Blendstocks of ethanol gasoline for motor vehicles

车用乙醇汽油调合组分油

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Blendstocks of ethanol gasoline for motor vehicles

WARNING -- If appropriate precautions are not taken, the products covered by this document may be dangerous during production, storage, transportation, and use. This document does not purport to address all of the safety problems, if any, associated with the products. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope

This document specifies the product classification, technical requirements, test methods, sampling, labeling, packaging, transportation, storage, and safety of blendstocks of ethanol gasoline for motor vehicles.

This document applies to blendstocks composed of liquid hydrocarbons derived from petroleum or liquid hydrocarbons derived from petroleum and performance-improving additives, used for blending ethanol gasoline for motor vehicles.

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.

GB 190 Packing symbol of dangerous goods

GB/T 259 Petroleum products - Determination of water soluble acids and alkalis

GB/T 260 Test method for water in petroleum products - Distillation method

GB/T 503 Determination of the gasoline octane number - Test method for motor octane number

GB/T 511 Petroleum, petroleum products and additives - Method for determination of mechanical admixtures

GB/T 1884 Crude petroleum and liquid petroleum products - Laboratory determination of density - Hydrometer method

GB/T 1885 Petroleum measurement tables

GB/T 4016 Terminology relating to petroleum products

SH/T 0693 Standard test method for determination of benzene, toluene, ethylbenzene, *p/m*-xylene, *o*-xylene, C₉ and heavier aromatics, and total aromatics in finished gasoline by gas chromatography

SH/T 0712 Standard test method for iron in gasoline by atomic absorption spectroscopy

SH/T 0713 Test method for determination of benzene and toluene in gasoline - Gas chromatography

SH/T 0720 Standard test method for determination of oxygenates in gasoline by gas chromatography and oxygen selective flame ionization detection

SH/T 0794 Standard test method for vapor pressure of petroleum products (mini method)

SH/T 1757 Aromatic hydrocarbons for industrial use - Determination of organic chloride - Microcoulometric method

T/CSPCI 00001 Test method for separation and determination of aniline compounds in gasoline - Solid-phase extraction/gas chromatography and mass spectrometry

3 Terms and definitions

For the purpose of this document, the terms and definitions defined in GB/T 4016 and the following apply.

3.1

antiknock index

Half the sum of the research octane number (RON) and the motor octane number (MON).

[Source: GB/T 4016-2019, 2.15.025]

3.2

ethanol gasoline for motor vehicles

A fuel blended from a base gasoline blendstock with 10 % by volume of denatured fuel ethanol for use in spark-ignition engines of motor vehicles.

3.3

blendstocks of ethanol gasoline for motor vehicles

Base gasoline blendstocks used in blending ethanol gasoline for motor vehicles.

4 Product classification

Blendstocks of ethanol gasoline for motor vehicles are classified into four designations, i.e. No. 89, No. 92, No. 95, and No. 98, based on the research octane number of ethanol gasoline for motor vehicles.

NOTE: The technical requirements for No. 98 blendstocks of ethanol gasoline for motor vehicles are listed in Annex A.

5 Technical requirements and test methods

5.1 The technical requirements and test methods for No. 89, No. 92, and No. 95 blendstocks of ethanol gasoline for motor vehicles (VI B) shall comply with the provisions of Table 1. The technical requirements and test methods for No. 98 blendstocks of ethanol gasoline for motor vehicles (VI B) shall comply with the provisions of Table A.1 in Annex A.

5.2 Additives used in blendstocks of ethanol gasoline for motor vehicles shall have no recognized harmful effects and shall be used in the recommended dosage. Blendstocks of ethanol gasoline for motor vehicles shall not contain any additives or pollutants that could cause the vehicle to malfunction. Methylal, aniline, or compounds containing halogens, phosphorus, or silicon shall not be artificially added to blendstocks of ethanol gasoline for motor vehicles.

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