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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 22030-2015

Replacing GB/T 22030-2013

Blendstocks of ethanol gasoline for motor vehicles

车用乙醇汽油调合组分油

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Table of Contents

Foreword.....	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	7
4 Product classification and naming	8
5 Requirements and test methods.....	8
6 Sampling	12
7 Marks, packaging, transport and storage	12
8 Safety	12
9 Implementation of standard	12
Annex A (Normative) Technical requirements and test methods for No. 98 blendstocks of ethanol gasoline for motor vehicles (V)	13

Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 22030-2013 *Blendstocks of ethanol gasoline for motor vehicles*.

Compared with GB/T 22030-2013, the main technical differences in this Standard are as follows:

- modified sub-clause 5.1 to: the additives used in blendstocks of ethanol gasoline for motor vehicles shall be used without any known adverse effects and shall be used in the recommended amount. The blendstocks of ethanol gasoline for motor vehicles shall not contain any additives and contaminants that can cause the vehicle to function improperly. The blendstocks of ethanol gasoline for motor vehicles must not be manually added with methylal, aniline, halogen and phosphorus, silicon or other compounds (see 5.1);
- added sub-clause 5.3: see Table 2 for technical requirements and test methods for No. 89, No. 92 and No. 95 blendstocks of ethanol gasoline for motor vehicles (V). When an enterprise is able to produce and sell No. 98 blendstocks of ethanol gasoline for motor vehicles (V), its technical requirements and test method shall comply with Annex A (see 5.3);
- added Table 2 "Technical requirements and test methods for blendstocks of ethanol gasoline for motor vehicles (V)" (see Table 2);
- added Clause 9 The implementation of standard (see Clause 9);
- added normative Annex A "Technical requirements and test methods for No. 98 blendstocks of ethanol gasoline for motor vehicles" (see Annex A).

This Standard shall be under the jurisdiction of National Technical Committee on Petroleum Products and Lubricants of Standardization Administration of China (SAC/TC 280).

Main drafting organizations of this Standard: China Petroleum & Chemical Corporation Petrochemical Research Institute, China Petroleum & Chemical Corporation, China National Petroleum Corporation.

Main drafters of this Standard: Ni Bei, Zhang Baosheng, Zhang Yan.

Versions of standard substituted by this Standard are:

Blendstocks of ethanol gasoline for motor vehicles

WARNING: In the event of failure to comply with appropriate precautions, there may be a danger in the course of production, transportation, handling, storage and use of the product of this Standard. This Standard is not intended to advise on all safety issues related to this product. It is the responsibility of the user to establish appropriate safety and precautions before using this Standard and to determine the suitability of the relevant regulatory limits.

1 Scope

This Standard specifies the terms and definitions, product classification and naming, requirements and test methods, sampling, marks, packaging, transport and storage, safety as well as the implementation of standard for blendstocks of ethanol gasoline for motor vehicles.

This Standard is applicable to blendstocks of ethanol gasoline (E10) for motor vehicles that consist of liquid hydrocarbons or liquid hydrocarbons and additives of improved performance so as to comply with GB 18351 requirements as reconciliation.

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

GB/T 260, *Determination of water content in petroleum products*

GB/T 503, *Test method for knock characteristics of motor and aviation fuels by the motor method*

GB/T 511, *Petroleum products and additives - Determination of mechanical impurities - Gravimetric method*

GB/T 1792, *Distillate fuels - Determination of mercaptan Sulphur - Potentiometric titration method*

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

GB/T 1885, *Petroleum measurement tables*

GB/T 4756, *Method for manual sampling of petroleum liquids*

GB/T 5096, *Petroleum products - Corrosiveness to copper - Copper strip test*

GB/T 5487, *method for knock characteristics of motor fuels by the Research method*

GB/T 6536, *Standard test method for distillation of petroleum products at atmospheric pressure*

GB/T 8017, *Standard test method for vapor pressure of petroleum products (Reid Method)*

GB/T 8018, *Determination of oxidation stability of gasoline - Induction period method*

GB/T 8019, *Standard test method for gum content in fuels - By jet evaporation*

GB/T 8020, *Determination of lead in gasoline - Atomic absorption spectrometry*

GB/T 11132, *Standard test method for hydrocarbon types in liquid petroleum products by fluorescent indicator adsorption*

GB/T 11140, *Standard test method for sulfur in petroleum products by wavelength dispersive X-ray fluorescence spectrometry*

GB 13690, *General rule for classification and hazard communication of chemicals*

GB 18351, *Ethanol gasoline for motor vehicles (E10)*

GB 30000.7-2013, *Rules for classification and labelling of chemicals - Part 7: Flammable liquids*

SH 0164, *Rules for the Packing, Storage, Transportation and Inspection upon Delivery of Petroleum products*

SH/T 0174, *Halogen qualitative test of aromatic hydrocarbons and light petroleum products thiols (Doctor test)*

SH/T 0253, *Determination method for total sulfur content in light petroleum products (coulometric method)*

SH/T 0604, *Crude petroleum and petroleum products - Determination of density-Oscillating U-tube method*

SH/T 0663, *Standard test method for determination of certain alcohols and ethers in gasoline by gas chromatography*

SH/T 0689, *Standard test method for determination of total sulfur in light hydrocarbons motor fuels and oils by ultraviolet fluorescence*

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 0711, *Standard test method for manganese in gasoline by atomic absorption spectroscopy*

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

SH/T 0713, *Standard test method for determination of benzene and toluene in finished motor and aviation gasoline by gas chromatography*

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

NB/SH/T 0741, *Standard Test Method for Determination of Hydrocarbon Types Composition in Gasoline by Multidimensional Gas Chromatography*

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

ASTM D7039, *Standard test method for sulfur in gasoline and diesel fuel by monochromatic wavelength dispersive X-ray fluorescence*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 antiknock index

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

GB/T 1884, GB/T 1885 shall prevail.

6 Sampling

The sampling shall be carried out according to GB/T 4756. Take 4 L for exit-factory inspection and sample reservation. If the blendstock of ethanol gasoline for motor vehicles contains manganese, sampling shall be carried out in a dark place.

7 Marks, packaging, transport and storage

7.1 The marks, packaging, transport, storage as well as delivery, acceptance of the product of this Standard shall be in accordance with SH 0164. If the blendstock of ethanol gasoline for motor vehicles contains manganese, it shall be protected from light during transport and storage.

7.2 During storage and transport of the blendstock of ethanol gasoline for motor vehicles that complies with this Standard, the entire system shall be required clean and free of water. Pay enough attention to the monitoring on water content.

8 Safety

According to GB 13690, the blendstock of ethanol gasoline for motor vehicles is flammable liquid. See Annex D of GB 30000.7-2013 for its hazard statement and precautionary statement.

9 Implementation of standard

Since the date of implementation of this Standard, it shall perform the gradually-introduced transitional requirements. The transition period of technical requirements specified in Table 2 and Table A.1 shall last to December 31, 2016. Since January 1, 2017, the technical requirements specified in Table 1 shall be repealed.

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