

Translated English of Chinese Standard: GB22030-2017
www.ChineseStandard.net → Buy True-PDF → Auto-delivery.
Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 75.160.20
E31

GB 22030-2017

Replacing GB/T 22030-2015

Blendstocks of ethanol gasoline for motor vehicles

Issued on: September 07, 2017 Implemented on: September 07, 2017

**Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;
Standardization Administration of the People's Republic of China.**

Table of Contents

1	Scope	5
2	Normative references	5
3	Terms and definitions	7
4	Product classification.....	8
5	Requirements and test methods.....	8
6	Sampling	12
7	Marking, Packaging, Transport and Storage	12
8	Safety	13
9	Standard implementation	13
	Appendix A (Normative) Technical requirements and test methods for No.98 blendstocks of ethanol gasoline for motor vehicles.....	14
	References	17

Foreword

Chapter 5 of this standard is mandatory; the rest are recommended.

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

This standard replaces GB/T 22030-2015 “Blendstocks of ethanol gasoline for motor vehicles”.

Compared with GB/T 22030-2015, the main technical changes of this standard are as follows:

- In the second paragraph of Chapter 1 Scope, MODIFY that “This standard applies to the blendstocks of ethanol gasoline (E10) for motor vehicles complying with GB 18351 which are composed of liquid hydrocarbons or liquid hydrocarbons and additives that improve the performance of use” into that “This standard applies to the blendstocks of ethanol gasoline (E10) for motor vehicles complying with GB 18351 which are composed of liquid hydrocarbons derived from petroleum or liquid hydrocarbons and additives derived from petroleum that improve the performance of use” (SEE Chapter 1; Chapter 1 of 2015 version);
- DELETE the technical requirements and test methods for blendstocks of ethanol gasoline for motor vehicles (IV) (Table 1 in 2015 version), ADD the technical requirements for blendstocks of ethanol gasoline for motor vehicles (IV) at phase VI vehicle, it is divided into phase VI A and phase VI B based on the difference in olefin content (SEE Table 2, Table 3);
- DELETE the technical requirements for quantitative determination of mercaptan sulfur (SEE Table 2 and Table A.1 of the 2015 version);
- MODIFY the technical requirements for density (SEE Table 1 and Table A.1; Table 2 and Table A.1 of 2015 version);
- MODIFY Chapter 9 “Implementation of standards” (SEE Chapter 9; Chapter 9 of the 2015 version);
- ADD Table A.2 in Appendix A (SEE Table A.2 in Appendix A).

This standard was proposed by the National Energy Administration.

This standard shall be under the jurisdiction of the National Standardization Technical Committee for Petroleum Products and Lubricants (SAC/TC 280).

Drafting organizations of this standard: China Petroleum & Chemical Corporation Petrochemical Scientific Research Institute, China Petroleum & Chemical Corporation, China National Petroleum Corporation Limited.

Blendstocks of ethanol gasoline for motor vehicles

Warning - If appropriate precautionary measures are not taken, the product to which this standard belongs may be dangerous during the production, storage, transportation, and use. This standard is not intended to suggest all safety issues related to this product. It is the user's responsibility to adopt appropriate safety and health measures and to ensure compliance with the conditions stipulated by relevant national laws and regulations.

1 Scope

This standard stipulates the terms and definitions, product classification and nomenclature, requirements and test methods, sampling, marking, packaging, transportation and storage, safety and implementation of standards for the blendstocks of ethanol gasoline for motor vehicles.

This standard applies to the blendstocks of ethanol gasoline (E10) for motor vehicles complying with GB 18351 which are composed of liquid hydrocarbons derived from petroleum or liquid hydrocarbons and additives derived from petroleum that improve the performance of use.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB 190 Labels for packages 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 products and additives-Determination of mechanical impurities - Gravimetric method

GB/T 1884 Crude petroleum and liquid petroleum products - Laboratory

hydrocarbon solvents - Doctor test method

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

NB/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 D 7039 Standard test method for sulfur in gasoline, diesel fuel, jet fuel, Kerosene, biodiesel, biodiesel blends, and gasoline - Ethanol blends by monochromatic wavelength dispersive X-ray fluorescence spectrometry

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Antiknock index

conducted in accordance with SH/T 0164, GB 30000.7-2013 and GB 190.

7.2 The markings for the blendstocks of ethanol gasoline for motor vehicles shall contain product designation and grade (V, VI A and VI B), for example: “No.89 blendstocks of ethanol gasoline for motor vehicles (V)”, “No.92 blendstocks of ethanol gasoline for motor vehicles (VI A)”, and “No.95 blendstocks of ethanol gasoline for motor vehicles (VI B)”.

7.3 Blendstocks of ethanol gasoline for motor vehicles meeting this standard require the entire system to be clean and free of water during storage and transport. The monitoring of water content needs to pay enough attention.

8 Safety

In accordance with GB 30000.7-2013, blendstocks of ethanol gasoline for motor vehicles are flammable liquids. Refer to Appendix D of GB 30000.7-2013 for hazard indications and precautions.

9 Standard implementation

This standard shall be implemented as of the date of promulgation, and the transitional requirements shall be introduced gradually. The transitional period of the technical requirements specified in Table 2 and Table A.2 are to December 31, 2018. From January 1, 2019, the technical requirements specified in Table 1 and Table A.1 are abolished; the transitional period for the technical requirements specified in Table 3 are to December 21, 2022; from January 1, 2023, the technical requirements specified in Table 2 will be abolished.

Taking into account the special needs of environmental protection in certain regions in China, local governments may, in accordance with their requirements for environmental protection management, agree with the relevant oil supply department, and implement the technical requirements for the blendstocks of ethanol gasoline for motor vehicles of corresponding phases in advance.