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Replacing DB11/ 238-2012

Gasoline for Motor Vehicles

车用汽油

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Supervision**

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Foreword

The full content of this Standard is compulsory.

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

This Standard serves as a replacement of DB11/ 238-2012 Gasoline for Motor Vehicles. Since the date of implementation of this Standard, DB11/ 238-2012 shall be abolished.

In comparison with DB11/ 238-2012, there are several main changes as follows:

- 3.2 is modified into “gasoline refueling machine for motor vehicles shall indicate in a prominent location: ‘Standard No. + spacing + nameplate + gasoline for motor vehicles’, or ‘nameplate + Jing VI + gasoline’”;
- 4.1 is modified into “4.1 additives used in gasoline for motor vehicles shall have no acknowledged detrimental effects and shall be used in accordance with the recommended proper dosage. Any additives or contaminants that may lead to abnormal operation of motor vehicles, such as: methylal, aniline, halogen and phosphorus-containing and silicon-containing compounds, cannot be added to gasoline for motor vehicles.”;
- The technical requirements towards the content of mercaptan sulfur are modified;
- The content of olefin is modified into “not more than 15% (volume fraction)”;
- “Olefin content + aromatic hydrocarbon content is not more than 60% (volume fraction)” is modified into “aromatic hydrocarbon content is not more than 35% (volume fraction)”;
- Benzene content is modified into “0.8% (volume fraction)”;
- Vapor pressure is modified into “from March 16 to May 14, 45 kPa ~ 70 kPa; from May 15 to August 31, 42 kPa ~ 62 kPa; from September 1 to November 14, 45 kPa ~ 70 kPa; from November 15 to March 15, 47 kPa ~ 80 kPa”;
- Evaporation temperature of 50% distillation range is modified into “not higher than 110 °C”.

This Standard was proposed by and shall be under the jurisdiction of Beijing Municipal Environmental Protection Bureau.

The implementation of this Standard shall be organized by Beijing Municipal Environmental Protection Bureau; Beijing Administration for Industry and Commerce.

The drafting organizations of this Standard: Beijing Institute of Standardization, China

Gasoline for Motor Vehicles

1 Scope

This Standard stipulates the product classification, labeling, technical requirements, test methods, sampling, packaging, marking, transportation, storage and safety of gasoline for motor vehicles.

This Standard is applicable to gasoline for motor vehicles, which is constituted of liquid hydrocarbon, or, liquid hydrocarbon and additives that improve the performance.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specific date, only versions with the specific date are applicable to this document. In terms of references without a specific date, the latest versions (including all the modification orders) are applicable to this document.

GB/T 259 *Petroleum Products - Determination of Water-soluble Acids and Alkalis*

GB/T 260 *Petroleum Products - Determination of Water*

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 4756 *Method for Manual Sampling of Petroleum Liquids*

GB/T 5096 *Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test*

GB/T 5487 *Determination of the Gasoline Octane Number - Test Method for Research Octane Number*

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*

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)*

NB/SH/T 0842 *Standard Test Method for Sulfur in Light Liquid Fuels by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry*

3 Product Classification and Labeling

3.1 Product Classification

In accordance with research octane number, gasoline for motor vehicles shall be divided into three nameplates, namely: 89#, 92# and 95#.

3.2 Labeling

Gasoline refueling machine for motor vehicles shall indicate in a prominent location: "Standard No. + spacing + nameplate + gasoline for motor vehicles", or "nameplate + Jing VI + gasoline".

Example: "DB11/ 238 92# gasoline for motor vehicles" or "92# Jing VI gasoline".

4 Technical Requirements and Test Methods

4.1 Additives used in gasoline for motor vehicles shall have no acknowledged detrimental effects and shall be used in accordance with the recommended proper dosage. Any additives or contaminants that may lead to abnormal operation of motor vehicles, such as: methylal, aniline, halogen and phosphorus-containing and silicon-containing compounds, cannot be added to gasoline for motor vehicles.

4.2 Technical requirements and test methods of gasoline for motor vehicles shall comply with the requirements in Table 1.

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