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Specification on the application of methanol fuel for vehicles

车用甲醇燃料应用规范

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Foreword

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1.Scope This document specifies the basic conditions, technical requirements, test methods, inspection rules, operational safety requirements, and environmental protection requirements for the application of methanol fuel in vehicles. Requirements, application requirements, and identification and labeling. This document applies to applications using methanol as a vehicle fuel.

4 basic conditions

4.1 Production and Operation Units

4.1.1 Legally registered and possessing a business license.

4.1.2 Production units shall obtain a hazardous chemical safety production license for methanol fuel products for vehicles in accordance with laws and regulations.

4.1.3 Operating entities shall obtain a hazardous chemicals business license for methanol fuel products for vehicles in accordance with laws and regulations.

4.1.4 It has corresponding management systems and supervision and inspection management systems and implementation measures.

4.1.5 Possess facilities, sites, and personnel commensurate with the scale of production and operation; the construction of production and operation sites should comply with local planning.

4.1.6 Production and operation units shall formulate emergency response plans for sudden incidents in accordance with GB/T 29639, covering all possible accidents such as fires and leaks. In addition, regular drills are conducted.

4.1.7 Production and operation operations shall comply with the relevant requirements of GB/T 41884.

4.2 Facilities and Equipment

- 4.2.1 It has a fixed production and operation site and equipment and facilities.
- 4.2.2 Construction of methanol fuel blending centers and storage facilities for vehicles shall be in accordance with GB 50074 and GB 50160.
- 4.2.3 Construction of methanol refueling stations for vehicles is specified in GB 50156.
- 4.2.4 The metallic, elastomer, and polymer materials used in the components of vehicle methanol fuel dispensers shall comply with the relevant standards of GB/T 41884. Relevant requirements.
- 4.2.5 The storage tanks for methanol fuel for vehicles shall be clean and free from pollution, and the cleaning of the storage tanks shall comply with the relevant requirements of GB/T 41884.
- 4.2.6 Production and operation sites should meet the requirements for safe production and sales of methanol fuel for vehicles, and have relatively independent functional spaces. There are clear signs between them.
- 4.2.7 Security measures such as theft prevention, fire prevention, moisture prevention, heat prevention, poisoning prevention, pollution prevention, and monitoring should be in place.
- 4.2.8 Qualified (verified or calibrated) measuring instruments related to the sale of methanol fuel for vehicles shall be provided.
- 4.2.9 Relevant facilities and equipment should be inspected, maintained, and serviced regularly to ensure their safety and effectiveness.

4.3 Staffing

- 4.3.1 Appropriate management, technical, safety, emergency response, production and service personnel should be allocated according to the scale of production and operation.
- 4.3.2 The principal responsible persons and safety management personnel of production and operation units shall hold certificates to work.
- 4.3.3 Production and operation personnel should undergo pre-job training, be familiar with relevant laws, regulations, and standards concerning methanol fuel for vehicles, and possess relevant professional knowledge. Knowledge, passed the assessment.
- 4.3.4 Production and operation personnel shall abide by all operating procedures and have good professional ethics and service awareness.
- 4.3.5 Enterprises should provide regular training for their production and operation personnel, with a minimum of 20 training hours per year.

4.4 Other

4.4.1 Production and operation units should establish a quality management system in accordance with the requirements of GB/T 19001, and simultaneously establish systems for outbound, transportation, warehousing, and storage. A comprehensive management system for the entire process, including entry into the station.

4.4.2 Production and operation units shall establish enterprise standardization systems in accordance with the requirements of GB/T 20001.10, GB/T 35778, and GB 45673.

4.4.3 Production and operation units should handle user complaints and suggestions in accordance with the complaint handling guidelines specified in GB/T 17242 to improve service quality.

4.4.4 The sales and service process for methanol fuel for vehicles is detailed in Appendix A.

4.4.5 Vehicles transporting methanol fuel shall comply with the relevant provisions of JT/T 1285, and road transport shall comply with JT/T 617 (all parts). According to regulations, labels should be affixed in accordance with GB 190 requirements.

5.1 Classification of Methanol Fuel

5.1.1 M100 Methanol Fuel for Vehicles. A vehicle fuel composed of compliant methanol and additives, with a methanol content (mass fraction) of not less than [amount missing]. 99.5% of the additives meet the requirements of GB/T 42436.

5.1.2 Methanol gasoline for vehicles (M85). Blended from methanol, automotive gasoline conforming to GB 17930 requirements, and additives to improve performance. The resulting vehicle fuel has a methanol volume fraction of 82%~86%, and the additives meet the requirements of GB/T 34548.

5.1.3 Methanol fuel products for vehicles as specified in legally publicly declared group standards and enterprise standards.

5.2 Quality Indicator Requirements

5.2.1 The quality indicators of M100 methanol fuel for vehicles shall meet the requirements of GB/T 42416.

5.2.2 The quality indicators of methanol gasoline (M85) for vehicles shall meet the requirements of GB/T 23799.

5.2.3 The raw material methanol shall meet the Type I requirements specified in GB/T 23510 or GB/T 338.

5.2.4 The quality indicators of the component oils of methanol gasoline (M85) for vehicles shall meet the requirements of GB 17930.