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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7715-2014

Ethylene for industrial use - Specification

工业用乙烯

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Quarantine;
Standardization Administration of the PRC**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 7715-2003 "industrial vinyl." Compared with the standard GB/T 7715-2003 The main changes are as follows:

- Modify the scope (see Chapter 1, Chapter 1 of the 2003 edition);
- Modify normative references, cancel the document's reference number, increase the portion referenced file (see Chapter 2, 2003 edition chapter 2);
- C3 and C3-class product metrics above by " $\leq 20\text{mL/m}^3$ " read " $\leq 10\text{mL/m}^3$ " (see Chapter 3, Table 1, 2003 edition of Chapter 3, Table 1);
- Excellence for indicators of carbon monoxide by the " $\leq 2\text{mL/m}^3$ " read " $\leq 1\text{mL/m}^3$ ", first-class goods index by the " $\leq 5\text{mL/m}^3$ " To " $\leq 3\text{mL/m}^3$ " (see Chapter 3, Table 1, 2003 edition of Chapter 3, Table 1); Excellence for indicators
- acetylene content by " $\leq 5\text{mL/m}^3$ " read " $\leq 3\text{mL/m}^3$ ", first-class goods index by the " $\leq 10\text{mL/m}^3$ " changed " $\leq 6\text{mL/m}^3$ " (see Chapter 3, Table 1, 2003 edition of Chapter 3, Table 1); First grade index
- sulfur content by " $\leq 2\text{mg/kg}$ " to " $\leq 1\text{mg/kg}$ " (see Chapter 3, Table 1, 2003 edition of Chapter 3, Table 1);
- Class product and first-class goods index methanol content by " $\leq 10\text{mg/kg}$ " to " $\leq 5\text{mg/kg}$ " (see Chapter 3, Table 1, 2003 Edition Chapter 3, Table 1);
- Increasing the DME control targets, "Excellence for $\leq 1\text{mg/kg}$ ", "first-class product $\leq 2\text{mg/kg}$ " (see Chapter 3, Table 1);
- Remove the sampling, inspection rules will be transferred to the relevant content (see Chapter 4, Chapter 4 of the 2003 edition);
- Modify the logo, packaging, transportation and storage (see Chapter 5, Chapter 6, 2003 edition);
- Modify the security (see Chapter 6, Chapter 7, 2003 edition). The standard proposed by

China Petroleum and Chemical Corporation. This standard by the National Standardization Technical Committee Petrochemical Chemical Technical Committee (SAC/TC63/SC4) centralized. This standard was drafted. China Petroleum and Chemical Corporation Maoming Branch, China PetroChina Dushanzi stone Of the branch. The main drafters of this Standard. Liang Hua, An Xiaochun, Shi Wei, Feng Xiaorong, Eastern Standard clock, Shaoshi Qin, Shao Weiguo, song Guoxing. This standard replaces the standards previously issued as follows:

--- GB/T 7715-1987, GB/T 7715-2003. Ethylene for industrial use

1 Scope

China's national specification for industrial ethylene. Ethylene is the most produced organic chemical in the world and the foundation of the petrochemical industry - a country's ethylene capacity is the standard measure of that industry's scale. Almost all of it is consumed where it is made or piped a short distance, because it is a gas that must be handled cold or under pressure, and it goes into polyethylene, ethylene oxide, ethylene dichloride and styrene. What makes the specification exacting is polymerisation: the catalysts that make polyethylene are poisoned at parts-per-million levels by acetylene, carbon monoxide, oxygen, sulfur and water, so the purity required is set by the catalyst rather than by any conventional notion of chemical purity. The standard specifies the requirements, inspection rules, marking, packaging, transport, storage and safety provisions, and applies to ethylene from steam cracking and from methanol-to-olefins technology intended for polyethylene, ethylene oxide and other organic products.

This standard specifies the requirements for industrial use ethylene, inspection rules, marking, packaging, transportation and storage, and security. This standard applies by steam cracking, methanol to olefins processing technology, isolated ethylene, and its main purpose is the production of polyethylene, ethylene Ene oxide and other organic matter. Molecular formula. C₂H₄

4 Molecular Weight. 28.054 (according to 2007 international relative atomic mass) This standard is not intended to illustrate associated with its use of all security issues, users have the responsibility to take appropriate safety and health practices, And to ensure compliance with the provisions of the relevant national regulations.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 190 packaging and marking of dangerous goods

GB/T 3391 for industrial use in ethylene hydrocarbon impurities - Gas chromatographic

method

GB/T 3393 for industrial use ethylene, propylene trace hydrogen gas chromatography

GB/T 3394 for industrial use ethylene, propylene trace of carbon monoxide, carbon dioxide and acetylene by gas chromatography

GB/T 3396 for industrial use ethylene, propylene trace oxygen measuring electrochemical

GB/T 3723 Sampling of chemical products for industrial use General Safety (GB/T 3723-1999, idt ISO 3165. 1976)

GB/T 3727 Determination of industrial water with ethylene, propylene Trace

GB/T 11141-2014 light olefins for industrial use - Determination of trace sulfur

GB 12268 of dangerous goods

GB/T 12701 for industrial use ethylene, propylene trace oxygenates by Gas Chromatography

GB/T 13289 Industrial liquid and gaseous ethylene sampling method (GB/T 13289-2014, ISO 7382. 1986NEQ)

GB 20577 chemical classification, precautionary labeling and precautionary statements of specification flammable gases "Special Equipment Safety Supervision Regulations" (State Council Decree No. 549) "Dangerous Goods Code" (cross rail transportation word No. 1218) "Dangerous chemical safety regulations" (State Council Decree No. 591)

3 Requirements

Industrial technology requirements and test methods are shown in Table 1 with ethylene.