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

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**Fire extinguishing agent hexafluoro propane (HFC236fa)
(English Translation)**

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0.1 mg, connected to the evaporation tube.

5.7 Determination of suspended solids or precipitates

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1 --- mouse cage;

2 --- exposure box;

3 --- computer;

4 --- flow meter;

5 --- flow meter;

6 --- air supply system;

7 - gas fire extinguishing agent samples;

8 --- exhaust port;

9 --- three-way cock.

2.5 gas flow meter and gas pipeline composition.

5.8 test fire concentration of 1.3 times.

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Foreword

Chapter 4 and Chapter 6 of this standard are mandatory and the rest are recommended.

This standard and ISO 14520-11..2005 "Physical fire extinguishing system physical properties and system design Part 11. HFC236fa fire fighting

Agent "(English version) of the degree of consistency is not equivalent.

Appendix A of this standard is an informative appendix.

This standard is proposed by the Ministry of Public Security of the People's Republic of China.

This standard is owned by the National Fire Safety Standardization Technical Committee Fire Extinguishing Subcommittee (SAC/TC113/SC3).

The drafting unit. the Ministry of Public Security Tianjin Fire Research Institute, Yunnan Tian Xiao system integrated fire safety technology Limited.

1 Scope

This standard specifies the term and definition, requirements, test methods, inspection rules, marking, packaging,

Transportation and storage.

This standard applies to hexafluoropropane (HFC236fa) fire extinguishing agent.

2 normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all

(Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard

Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

Preparation of standard titration solution for GB/T 601 chemical reagents

GB/T 603 Preparation of preparations and preparations for chemical reagent test methods (GB/T 603-2002, ISO 6353-1. 1982,

Reagentsforchemicalanalysis-Part 1. Generaltestmethods, NEQ)

Hygienic standard for drinking water

GB/T 6682 Analytical laboratory water specifications and test methods (GB/T 6682-2008,

ISO 3696. 1987, MOD)

Determination of trace moisture in fluorinated alkanes for industrial use GB/T 7376

GB 14922.1 Parasitic level and monitoring of experimental animals

GB 14922.2 Microbiological grade and monitoring of experimental animals

Genetic Quality Control of Experimental Animal Mammalian Animals

GB 14924.3 Experimental animal mouse rat compound feed

Laboratory Animal Environment and Facilities

GB/T 20702-2006 Gas fire extinguishing agent fire test performance test method (ISO 14520-1..2000, Gaseous fire-

extinguishing systems-Physical properties and system design-Part 1. General requirements, NEQ)

Gas cylinders safety supervision procedures National Quality and Technical Supervision [2000] 250 document

3 terms and definitions

The following terms and definitions apply to this standard.

3.1

In accordance with the international general name of halogenated alkane known as HFC236fa. The specific meaning is. HFC on behalf of hydrofluorocarbons; 2 on behalf of the number of carbon atoms

(For example, 3 carbon atoms); 3 represents the number of hydrogen atoms plus 1 (ie 2 hydrogen atoms); 6 represents the number of fluorine atoms (ie 6 fluorine atoms); f said

The substituents in the intermediate carbon atom are in the form of -CH₂-; a represents the difference between the sum of the substituted atomic weights of the carbon atoms at both ends, i.e., the most symmetric.

4 requirements

Hexafluoropropane (HFC236fa) fire extinguishing agent technical performance should be consistent with the provisions of Table 1.

Table 1 Hexafluoropropane (HFC236fa) fire extinguishing agent technical performance

Item Specifications Unqualified

Purity /% (mass fraction) ≥ 99.6 A

Acidity /% (mass fraction) $\leq 3 \times 10^{-4}$ A

Moisture /% (mass fraction) $\leq 10 \times 10^{-4}$ A

Evaporation residue /% (mass fraction) ≤ 0.01 B

Suspended matter or precipitate without turbidity or sediment B

Fire extinguishing concentration (cup burner method) /% (volume fraction) 6.5 ± 0.2 A

toxicity

Anesthesia without anesthesia symptoms and characteristics

Irritation without irritation

5.1 General provisions

The reagents and water used in this standard refer to the analytical reagents and the tertiary water specified in GB/T 6682 when no other requirements are specified.

The standard solution used in the test shall be prepared in accordance with the requirements of GB/T 601 and GB/T 603 when no other requirements are specified.

5.2.1 Sampling cylinders

Sampling cylinders should meet the following requirements.

- a) Material is made of stainless steel;
- b) Design pressure should not be less than 1.5MPa.

5.2.2 Treatment of sampling cylinders

Sampling cylinders Before use for the first time, wash with water and a suitable solvent such as ethanol or acetone. After washing, at 105°C to 110°C

Electric blast drying oven baking 3h ~ 4h, while the vacuum cylinder to the absolute pressure is not higher than 1.3kPa, and in this pressure to maintain 1h ~

2h, then close the cylinder valve for sampling.

Prior to each subsequent sampling, the residual hexafluoropropane (HFC236fa) extinguishant sample in the cylinder should be vented at 1.3 kPa

Under the conditions of vacuum 1h, and then pour a small amount of hexafluoropropane (HFC236fa) extinguishing agent, continue to vacuum 1h to keep the sampling cylinder

Clean and dry.