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PEOPLE'S REPUBLIC OF CHINA

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**1,1,1,2-Tetrafluoroethane for automobile
air-conditioning use (aerosol product)**

汽车空调用 1,1,1,2-四氟乙烷(气雾罐型)

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Quarantine;**

**Standardization Administration of the People's Republic of
China.**

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1,1,1,2-Tetrafluoroethane for automobile air-conditioning use (aerosol product)

1 Scope

This Standard specifies the terms and definitions, technical requirements, test methods, inspection rules, marks, packaging, transport, storage and safety of 1,1,1,2-Tetrafluoroethane for automobile air-conditioning use (aerosol product).

This Standard is applicable to automobile air conditioning refrigerant that uses 1,1,1,2-tetrafluoroethane as raw material, packaged in aerosol can (less than 1L) produced by the filling process.

This Standard is not applicable to reusable aerosol can type products.

Chemical name: 1,1,1,2-tetrafluoroethane

Molecular formula: $C_2H_2F_4$

Relative molecular mass: 102.03 (according to the international relative atomic mass in 2013)

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 190, *Packing symbol of dangerous goods*

GB/T 191, *Packaging and storage marks*

GB/T 2828.1, *Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

GB/T 8170, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB/T 13042, *Packaging Containers – Tinplate Aerosol Can*

- a) when key production process updated, mainly changes on main raw material;
- b) production resumed after production discontinued;
- c) major mass accident occurred;
- d) significant difference between previous type inspection;
- e) when quality supervision agency required by law;
- f) when user has special requirements.

6.3.2.3 Randomly extract and mix 2 samples from the factory inspection items to ensure that each sample contains 1,1,1,2-tetrafluoroethane not less than 1000 g. One sample is used as a sample for 4.4 refrigerant quality inspection, and the other is used as a backup sample.

6.4 Rules for determination

6.4.1 As technical requirements 4.1~4.3, if the inspection indicator of the tested sample is unqualified, it shall be re-examined twice from the same batch of products for re-inspection. The re-inspection results shall prevail. If the retest result is still exceeding the quality limit, the batch is determined as unqualified.

6.4.2 Technical requirements 4.4 refrigerant quality inspection items shall be carried out according to the comparison method of the repair value in GB/T 8170. If the test results do not meet the requirements of this Standard, it shall be re-extracted twice from the same batch of products for re-inspection. The result of re-inspection is that even if only one indicator does not meet the requirements of this Standard, the whole batch of products shall be unqualified.

6.4.3 The determination rules for exit-factory inspection and type inspection shall be the same.

7 Marks, packaging, transport and storage

7.1 Marks

7.1.1 The packaging container of 1,1,1,2-tetrafluoroethane for automobile air-conditioning use (aerosol product) shall have firm and clear mark, indicating the following information:

- a) product name and trademark;
- b) manufacturer name and address;
- c) net content;

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