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**PETROLEUM AND PETROCHEMICAL INDUSTRY
STANDARD OF PEOPLE'S REPUBLIC OF CHINA
中华人民共和国石油化工行业标准**

SH/T 0770-2005

**Standard test method for freezing point of
aviation fuels**

(Automatic phase transition method)

航空燃料冰点测定法

(自动相转换法)

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Foreword

The amendment of this standard uses American Society for Testing and Materials Standard ASTM D 5979 - 02 *Standard Test Method of Aviation Fuel Freezing Point (Automatic Phase Transition Method)*.

This standard is redrafted according to ASTM D 5979 - 02.

In order to adapt to the situations of our country, this standard is amended when it uses ASTM D 5979 - 02. The main differences between this standard and ASTM D 5979 - 02 are as follows:

- The references of this standard use the corresponding national standards of China; For convenient use, this standard also made the following editorial amendments:
- The representation of repeatability and reproducibility text was amended according to the practice of China.
- Delete the key words in Chapter 13.

The Annex A in this standard is the normative annex.

This standard is proposed by China Petroleum and Chemical Corporation.

This standard is under jurisdiction of Research Institute of Petroleum and Chemical of China Petroleum and Chemical Corporation.

Drafting units of this standard: Research Institute of Petroleum and Chemical of China Petroleum and Chemical Corporation.

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Standard Test Method of Aviation Fuel Freezing Point
(Automatic Phase Transition Method)

1 Scope

1.1 This standard specifies the determination method of freezing point of jet fuel, and the jet fuel less than this temperature will form the solid hydrocarbon crystalline.

1.2 This standard is applied to determine the range of freezing point of $-80^{\circ}\text{C} \sim 20^{\circ}\text{C}$, however the research on laboratory room mentioned in Article 12.4 only verify the range of freezing point of jet fuel of $-45^{\circ}\text{C} \sim 65^{\circ}\text{C}$.

1.3 When standards specifies to determine JetB and JP4 specimen, the user should note that (refer to Article 12.3).

Note: JetB and JP4 are equivalent to the broad fraction jet fuel regulated in GJB 2375 of China.

1.4 This standard uses SI (international unit system) as the standard measurement unit.

1.5 In the use of this standard, it may involve in the hazardous materials, operation and equipment. This standard does not propose the suggestions on all safety problems related to this, and the user has the responsibility to establish the corresponding safety and protection measures before it uses this standard, and identify its limited applicable scope.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all subsequent modifications (Including all corrections) or revisions made thereafter do not apply to this standard. However, the parties that reach an agreement according to this standard are encouraged to study whether the latest versions of these documents may be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 2430 Jet fuels; Determination of freezing-point

GJB 2376 Broad fraction jet fuel regulated

ASTM D2386 Standard Test Method of Aviation Fuel Freezing Point

3 Terms and definitions

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