INTERNATIONAL STANDARD

ISO 3013

Second edition 1997-09-15

Petroleum products — Determination of the freezing point of aviation fuels

Produits pétroliers — Détermination du point de disparition des cristaux des carburants aviation



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 3013 was prepared by Technical Committee ISO/TC 28, Petroleum products and lubricants.

This second edition cancels and replaces the first edition (SO 3013:1974), which has been technically revised, in particular with the inclusion of annex A.

Annex A forms an integral part of this International Standard.

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Petroleum products — Determination of the freezing point of aviation fuels

WARNING — The use of pris International Standard may involve hazardous materials, operations and equipment. This International Standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this International Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

Scope

This International Standard specifies a produce for determining the temperature below which solid hydrocarbon crystals are present in aviation turbine fuels or aviation gasolines.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3170:1988, Petroleum liquids — Manual sampling.

ISO 3171:1988, Petroleum liquids — Automatic pipeline sampling.

The purposes of this International Standard the following definitions apply: revision, and parties to agreements based on this International Standard are encouraged to investigate the

- 3.1 freezing point: The temperature at which solid hydrocarbon crystals, formed on doling, disappear when the temperature of the test sample is allowed to rise.
- 3.2 crystallization point: The temperature at which crystals of hydrocarbons first appear when the test sample is cooled.

4 Principle

The sample tube, containing the test sample, a stirrer, collar and thermometer, is placed in a vacuum flask containing a coolant. During the cooling cycle the test sample is stirred vigorously and examined for the formation of