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**Crude petroleum and petroleum products
— Determination of nitrogen content**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Petroleum Association of Japan (PAJ) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied *mutatis mutandis* pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 2609** : 1998), which has been technically revised.

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Crude petroleum and petroleum products — Determination of nitrogen content

1 Scope

This Japanese Industrial Standard specifies the method for determining the nitrogen content of crude petroleum and petroleum products by the chemiluminescence method. This Standard is applicable to samples containing 1 mg/kg or more of nitrogen in the case of naphtha, kerosene, and gas oil, and samples containing 0.01 % mass fraction or more of nitrogen in the case of crude oil, lubricating oil, and heavy oil. The precision specified in this Standard is not applicable to crude oil and lubricating oil.

The macro-Kjeldahl method is detailed in Annex A.

NOTE 1 For determination of nitrogen content by the microcoulometric titration method, see Annex B.

NOTE 2 The test methods covered by this Standard may fail to accurately determine nitrogen content if the sample is mixed with additives containing nitrogen compounds with nitrogen-nitrogen bond.

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

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 0512 *Hydrogen*

JIS K 0557 *Water used for industrial water and wastewater analysis*

JIS K 1101 *Oxygen*

JIS K 1105 *Argon*

JIS K 2249-1 *Crude petroleum and petroleum products — Determination of density — Part 1 : Oscillating U-tube method*

JIS K 2249-2 *Crude petroleum and petroleum products — Determination of density — Part 2 : Hydrometer method*

JIS K 2249-3 *Crude petroleum and petroleum products — Determination of density — Part 3 : Capillary pycnometer method*