



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 2258-2 : 2009

(PAJ)

**Crude petroleum and petroleum
products—Determination of vapour
pressure—Part 2: Triple expansion
method**

ICS 75.040;75.080

Reference number : JIS K 2258-2 : 2009 (E)

PROTECTED BY COPYRIGHT



Documents

Document Sharing Hub

8 S

Date of Establishment: 2009-03-20

Date of Public Notice in Official Gazette: 2009-03-23

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Chemical Products

JIS K 2258-2 : 2009, First English edition published in 2010-03

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

PROTECTED BY COPYRIGHT

KK/SW
AVA Documents
Document Sharing Hub

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Reagents	3
6 Apparatus	3
7 Preparation of apparatus	4
8 Verification of apparatus	4
9 Samples and sampling	5
10 Sample preparation	5
11 Test procedure	6
12 Calculation and expression of results	6
13 Precision	7
13.1 Repeatability	7
13.2 Reproducibility	7
14 Test report	7
Annex A (informative) Types of test methods	8

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Petroleum Association of Japan (PAJ) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This JIS document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS K 2258 series consists of the following 2 parts with the general title "*Crude petroleum and petroleum products—Determination of vapour pressure*":

Part 1: Reid method

Part 2: Triple expansion method

Crude petroleum and petroleum products

– Determination of vapour pressure

– Part 2: Triple expansion method

Introduction

This Japanese Industrial Standard was established as Part 2 of JIS K 2258 standard series.

No corresponding International Standard has been established at this point.

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 regulatory limitations prior to use.

1 Scope

This Standard specifies the measuring method of absolute vapour pressure of 7 kPa to 150 kPa at 37.8 °C of volatile and non-viscous petroleum products in accordance with the triple expansion method. The method is applicable to volatile crude oils of 7 kPa or less in dissolved air pressure, but the precision specified is not applicable. Also, for any sample that produces turbidity when cooled to 0 °C to 1 °C, the precision specified in this Standard is not applicable.

NOTE: For all the test methods contained in JIS K 2258 series, see Annex A.

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 225 1 *Crude petroleum and petroleum products—Sampling*

JIS K 8848 *Hexane (Reagent)*

JIS Z 8401 *Guide to the rounding of numbers*

JIS Z 8402-6 *Accuracy (trueness and precision) of measurement methods and results—Part 6: Use in practice of accuracy values*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions in the following apply.

3.1 vapour pressure

partial pressure which a sample vapour indicates in a test chamber regulated at 37.8 °C when the volume ratio of a sample section to a vapour-layer section is 1:4