



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 1501 : 2005

(MFA/JSA)

Methanol

ICS 71.080.60

Reference number : JIS K 1501 : 2005 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard 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 Methanol Formaldehyde Association (MFA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS K 1501** : 1993 is replaced with this Standard.

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.

In this revision, the quality specification of specific gravity is modified mainly to that of density according to the specification of JIS Z 8203 or the like, because the corresponding International Standard ISO 1387 was withdrawn.

Date of Establishment: 1950-06-13

Date of Revision: 2005-04-20

Date of Public Notice in Official Gazette: 2005-04-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Chemical Products

JIS K 1501 : 2005, First English edition published in 2005-07

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 2005

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

AT/AT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Quality	1
4 Test method	2
4.1 Matters in common	2
4.2 Sampling method	3
4.3 Test method of density and specific gravity	4
4.4 Test of methanol purity	5
4.5 Test of free acid	7
4.6 Test of residue on evaporation	8
4.7 Test of iodoform-producing material	9
4.8 Test of solubility in water	11
4.9 Test of colouring material by sulfuric acid	11
4.10 Potassium permanganate-reducing material test	12
4.11 Test of water content	12
5 Results of test	14
6 Inspection	14
7 Record of test results	14
8 Marking	15
9 Precautions for safety and sanitation	15

Methanol

Introduction This Japanese Industrial Standard is a revision of former **JIS K 1501** of which quality specification of specific gravity has been modified mainly to that of density according to the specification of **JIS Z 8203**, because the corresponding International Standard **ISO 1387** *Methanol for industrial use—Methods of test* was withdrawn in 2002.

1 Scope This Standard specifies methanol for industrial use.

Remarks : When making a usual transaction inside and outside of this country, the unit by specific gravity has been recently employed. When the operation in **7.1** of **JIS K 0061** is used, the measurements of specific gravity by hydrometer is specified as well as the measurement by density. For this reason, though **JIS Z 8203** standardly adopts the measurement by gravity, this Standard uses the value of specific gravity set in parenthesis () as well as the value of density.

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

JIS K 0050 *General rules for chemical analysis*

JIS K 0061 *Test methods for density and relative density of chemical products*

JIS K 0068 *Test methods for water content of chemical products*

JIS K 0114 *General rules for gas chromatographic analysis*

JIS K 8001 *General rule for test methods of reagents*

JIS K 8180 *Hydrochloric acid*

JIS K 8247 *Potassium permanganate*

JIS K 8514 *Sodium bromide*

JIS K 8540 *Sodium (+)-tartrate dihydrate*

JIS K 8876 *Magnesium powder*

JIS K 8891 *Methanol*

JIS K 8920 *Iodine*

JIS K 8951 *Sulfuric acid*

JIS Z 8203 *SI units and recommendations for the use of their multiples and of certain other units*

JIS Z 8401 *Guide to the rounding of numbers*

3 Quality The methanol for industrial use specified here shall be colourless and transparent liquid having no offensive odour, and its quality, when tested according to clause **4**, shall conform to the requirements shown in table 1.