

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 1481-2 : 2016

**Determination of asbestos in building
material products — Part 2: Sampling and
qualitative analysis for judgement
of existence of containing asbestos**

ICS 13.040.20

Reference number : JIS A 1481-2 : 2016 (E)

PROTECTED BY COPYRIGHT

19 S

A 1481-2 : 2016

Date of Establishment: 2014-03-28

Date of Revision: 2016-03-22

Date of Public Notice in Official Gazette: 2016-03-22

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Architecture

JIS A1481-2 : 2016, First English edition published in 2016-07

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2016

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

NH/HN

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Qualitative analytical method and principle	2
4.1 Summary of qualitative analytical method	2
4.2 Principle of qualitative analytical method	3
5 Sampling	5
5.1 Method of sampling	5
5.2 Transportation and storage of sample	6
5.3 Sampling record	6
6 Preparation of primary analytical sample	6
6.1 Preparation of primary analytical sample from inorganic component sample	6
6.2 Preparation of primary analytical sample from organic component sample	7
7 Qualitative analysis by X-ray diffraction method on secondary analytical sample	8
8 Qualitative analysis using a dispersion staining phase-contrast microscope on primary analytical sample	11
8.1 Preparation of specimens	11
8.2 Dispersion staining method using a phase-contrast microscope	12
9 Qualitative analysis for vermiculite spraying material	15
9.1 Potassium chloride treatment	15
9.2 Analytical method for presence of asbestos in vermiculite spraying material	15
10 Judgement of presence of asbestos	16
11 Report of judgement result	17
Annex A (normative) Conditions of X-ray diffractometer used for qualitative analysis related to asbestos	18
Annex B (normative) Specification of dispersion staining phase-contrast microscope	20
Annex C (informative) Example of format for judgement result report	21

Annex D (informative)	Comparison table between previous and current editions of this Standard on technically significant revisions	30
-----------------------	--	----

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 in accordance with the Industrial Standardization Law. Consequently **JIS A 1481-2:2014** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS A 1481 series consists of the following 4 parts:

JIS A 1481-1 *Air quality — Bulk materials — Part 1: Sampling and qualitative determination of asbestos in commercial bulk materials*

JIS A 1481-2 *Determination of asbestos in building material products — Part 2: Sampling and qualitative analysis for judgement of existence of containing asbestos*

JIS A 1481-3 *Determination of asbestos in building material products — Part 3: Quantitative analysis of containing asbestos by X-ray diffraction method*

JIS A 1481-4 *Air quality — Bulk materials — Part 4: Quantitative determination of asbestos by gravimetric and microscopical methods*

Determination of asbestos in building material products — Part 2 : Sampling and qualitative analysis for judgement of existence of containing asbestos

Introduction

This Japanese Industrial Standard was established in 2014. The revision at this time has been made for the purpose of maintaining its consistency with other standards in **JIS A 1481** series. The comparison table between previous and current editions of this Standard on technically significant revisions is given in Annex D.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies matters concerning determination of the presence of asbestos in samples taken from building products; namely, the analytical sample preparation (primary and secondary analytical samples), the qualitative analysis method using an X-ray diffractometer and a dispersion staining phase-contrast microscope, and the method for determination of the presence of asbestos.

This Standard is applicable to qualitative analysis of: fire proofing spraying materials and the like, spraying materials made of vermiculite, interior finishing materials (moulded boards), floor tiles, exterior finishing materials (moulded boards, mortar), roofing materials, chimney materials, heat insulating materials, textile goods (cloths), sealing compounds and expansion joints.

This Standard is not applicable to natural minerals which can contain asbestos or any products made of such natural minerals (excluding spraying material made of vermiculite).

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 3850-1 *Determination of airborne fibrous particles — Part 1 : Optical microscopy method and scanning electron microscopy method*

JIS K 8121 *Potassium chloride (Reagent)*

JIS K 8264 *Formic acid (Reagent)*

JIS R 3503 *Glass apparatus for chemical analysis*

JIS R 3702 *Cover glasses for microscopes*