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(JTCCM/JSA)

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

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## 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 Japan Testing Center for Construction Materials (JTCCM)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently **JIS A 1481:2008** has been withdrawn and partially replaced with this Standard.

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**JIS A 1481** series consists of the following 3 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*

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

## Introduction

This Japanese Industrial Standard was established as **JIS A 1481** in 2006 and has gone through one revision since then, which was made in 2008. The purpose of this revision and establishment of this Standard as **JIS A 1481-3** is : to resolve the inconvenience in standard structure; to divide **JIS A 1481** into series of standards for the purpose of harmonization with the newly established related International Standards; and to partly revise the requirements of the analytical method specified. 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 the method of determining asbestos content (mass fraction) (hereafter referred to as “asbestos content”) in building material products by the X-ray diffraction analysis method. It consists of procedures for preparation of secondary and tertiary analytical samples for quantitative determination, and the X-ray diffraction method employing the absorption correction by basal standard method.

It is not applicable to natural minerals which can contain asbestos as impurities or any products that are made of such natural minerals.

For criteria to be applied for the analysis, those stipulated by the following domestic laws and regulations shall prevail over those specified in this Standard.

- Industrial Safety and Health Act
- Waste Management and Public Cleansing Act

**NOTE 1** **JIS A 1481-1** is applicable to asbestos analysis for both building material products and natural minerals. **JIS A 1481-2** and **JIS A 1481-3**, on the other hand, are only applicable to asbestos analysis for building material products and not applicable to analysis for natural minerals which can contain asbestos or any products that are made of such natural minerals.

**NOTE 2** Figure 1 shows the flow chart for judgement of asbestos content of 0.1 %.