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## Methods for determination of mercury in stack gas

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In the event of any doubts arising as to the contents,  
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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 in accordance with the Industrial Standardization Act. This edition replaces the previous edition (**JIS K 0222** : 1997), which has been technically revised.

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# Methods for determination of mercury in stack gas

## Introduction

This Japanese Industrial Standard is a revision of **JIS K 0222** : 1997, from “methods for determination of gaseous mercury in stack gas” to “methods for determination of total mercury in stack gas.” Clause **6** of this Standard has been prepared based on **ISO 21741** : 2020, Edition 1, with some modifications of the technical contents.

The dotted underlines in Clause **6** indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard specifies the methods for determination of total mercury in stack gas, which is generated from the combustion of fuel and others or from various manufacturing processes, and is exhausted to ducts, etc.

**NOTE** The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 21741 : 2020 *Stationary source emissions — Sampling and determination of mercury compounds in flue gas using gold amalgamation trap* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

## 2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied.

JIS K 0050 *General rules for chemical analysis*

JIS K 0095 *Methods for sampling of flue gas*

JIS K 0102 : 2016 *Testing methods for industrial wastewater*

JIS K 0121 *General rules for atomic absorption spectrometry*

JIS K 0211 *Technical terms for analytical chemistry (General part)*

JIS K 0301 *Methods for determination of oxygen in flue gas*

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

JIS K 0901 *Form, size and performance testing methods of filtration media for collecting airborne particulate matters*