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**JIS R 3224-3** : 2018

(FGMAJ/JSA)

**Glass in buildings—Insulating  
glass—Part 3: Gas concentration  
and gas leakage**

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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 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 Flat Glass Manufactures Association of Japan (FGMAJ)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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**JIS R 3224** series consists of the following 2 parts under the general title “*Glass in buildings—Insulating glass*”:

*Part 1: Durability of edge seals by climate tests*

*Part 3: Gas concentration and gas leakage*

# Glass in buildings—Insulating glass— Part 3: Gas concentration and gas leakage

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 20492-3:2010**, Edition 1, with some modifications of the technical contents, which are considered necessary in view of situations in Japan.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

## 1 Scope

This Standard specifies the test methods of gas concentration and gas leakage for insulating glass. The two methods designated as Approach 1, which is intended for use in markets such as North America, and Approach 2, which is intended for use in markets such as Europe.

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

ISO 20492-3:2010 *Glass in buildings—Insulating glass—Part 3: Gas concentration and gas leakage* (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

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 0114 *General rules for gas chromatography*

JIS R 3209 *Insulating glass*

JIS R 3224-1 *Glass in buildings—Insulating glass—Part 1: Durability of edge seals by climate tests*

**NOTE** Corresponding International Standard: ISO 20492-1 *Glass in buildings—Insulating glass—Part 1: Durability of edge seals by climate tests* (MOD)

ISO 16293-1 *Glass in building—Basic soda lime silicate glass products—Part 1: Definitions and general physical and mechanical properties*

ISO 20492-4 *Glass in buildings—Insulating glass—Part 4: Methods of test for the physical attributes of edge seals*