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**General safety code for industrial
combustion furnaces—Part 1:
General requirements**

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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 Japan Industrial Furnace Manufacturers Association (JIFMA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act. This Standard partially replaces **JIS B 8415:2008**, which has been withdrawn.

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JIS B 8415 series consists of the following 3 parts under the general title *General safety code for industrial combustion furnaces*—:

Part 1: General requirements

Part 2: Combustion and fuel handling systems

Part 3: Protective systems

General safety code for industrial combustion furnaces—Part 1: General requirements

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 13577-1:2016**, Edition 2, with some modifications of the technical contents.

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.

This Standard is a type-C standard as defined in **JIS B 9700**.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the scope of this Standard.

When requirements of this type-C standard are different from those which are stated in type-A or -B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

This Standard shall always be used and take precedence for industrial combustion furnaces and associated devices.

Industrial combustion furnaces and associated devices generally consists of the following components:

- processing chambers (e.g. steel construction with lining and/or refractory-lined);
- combustion and fuel handling systems;
- protective system;
- control and instrumentation system.

This Standard specifies the general safety requirements common to industrial combustion furnaces and associated devices. If the provisions of this Standard conflict with those specified in **JIS B 8415-2**, the provisions of **JIS B 8415-2** shall take precedence.

Industrial combustion furnaces and associated devices are assumed to be operated by trained furnace operators.

1 Scope

This Standard specifies the general safety requirements for the industrial combustion furnaces and associated devices (hereafter referred to as the combustion furnaces) heated by gaseous fuel and liquid fuel in the industrial field as shown in the following **a)** to **d)**.

Further, this Standard specifies the requirements to secure the safety of persons and devices against serious hazards such as predictable mistakes and malfunctions which can occur in the course of commissioning, operation and maintenance.