

JIS

JAPANESE INDUSTRIAL STANDARD

**Heat balancing of kiln and
furnace for lime**

JIS R 0305^{—1991}

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

1. Scope

This Japanese Industrial Standard specifies the heat balancing of kiln and furnace used for calcination of limestone.

Remarks 1. Applicable Standards to this Standard are shown in Attached Table 1.

2. In this Standard the units and numerical values shown in { } are in accordance with traditional units and appended for informative reference.

2. Reference

2.1 The heat balancing shall be carried out by the operation actual results of continuous 24 h min. in normal operation of kiln and furnace.

2.2 The heat balancing shall be carried out concerning 1 t calcined quick lime, hereinafter referred to as the "lime".

2.3 The reference temperature of heat balancing shall be the outside air temperature.

2.4 As to the heating value of fuel, the lower heating value⁽¹⁾ at the time of using shall be used.

Note ⁽¹⁾ The conversion from higher heating value to lower heating value shall be in accordance with the method given in Annex 1.

3. Record and measuring items relating to equipment

3.1 Record relating to equipment The record relating to equipment shall be as follows:

- (1) Name and location of workshop
- (2) Type, name, number, etc. of kiln or furnace
- (3) Use⁽²⁾ of lime
- (4) Inside diameter and total length (height)⁽³⁾ of kiln or furnace
- (5) Sectional area and effective volume of kiln or furnace
- (6) Constitutional form of wall of kiln
- (7) Class (name) of using fuel⁽⁴⁾
- (8) Form and equipment of draft⁽⁵⁾
- (9) Equipment for charge of raw material and discharge of lime