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# JIS Z 1531-1 : 2004

(JKPSA/JSA)

## Kraft paper sacks—Description and method of measurement

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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 of establishing a Japanese Industrial Standard from Japan Kraft Paper Sacks Industrial Association (JKPSA)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This Standard has been made based on **ISO 6591-1 : 1984** *Packaging—Sacks—Description and method of measurement—Part 1 : Empty paper sacks* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard. Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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## Kraft paper sacks—Description and method of measurement

**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of **ISO 6591-1** *Packaging—Sacks—Description and method of measurement—Part 1 : Empty paper sacks* published in 1984 with some modifications of editorial presentation and/or technical contents.

Portions sidelined or underlined with dots are the matters modified from the original International Standard. The list of modification with its explanation is given in annex (informative).

**1 Scope and field of application** This part of **JIS Z 1531** fixes the description and the dimensional designation of empty kraft paper sacks and specifies the method of measuring those dimensions. It is primarily intended for application to paper sacks as specified in **JIS Z 0102**.

**NOTE :** The International Standard corresponding to this Standard is as follows.

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**.

**ISO 6591-1 : 1984** *Packaging—Sacks—Description and method of measurement—Part 1 : Empty paper sacks* (MOD)

**2 Normative references** The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of publication is given to these referred standards, only the edition of the indicated year constitutes the provision of this Standard but the revision and amendment made thereafter do not apply. The normative references without the indication of the year of coming into effect apply only to the most recent edition (including amendments).

**JIS Z 0102** *Vocabulary for kraft paper sacks*

**NOTE :** **ISO 6590-1 : 1983** *Packaging—Sacks—Vocabulary and types—Part 1 : Paper sacks* is equivalent to the said standard.

**JIS Z 1531-3** *Packaging—Sacks—Method of sampling empty sacks for testing*

**NOTE :** **ISO 7023 : 1983** *Packaging—Sacks—Method of sampling empty sacks for testing* is identical with the said standard.

**ISO 6599-1 : 1983** *Packaging—Sacks—Conditioning for testing—Part 1 : Paper sacks*

**3 Definitions** For the purpose of this Standard the following symbols and definitions apply.

**NOTE :** Unless otherwise stated, all dimensions in this clause are external. They shall be expressed in millimetres, to the nearest 1 mm.

- a) **length of sack,  $a$**  : Distance between the transverse edges of the flat sack, measured at the centre, perpendicular to the bottom.
- b) **width of sack (body width),  $b$**  : Distance between the longitudinal edges of the flat sack, measured at the centre, parallel to the bottom.
- c) **width of gusset,  $e$**  : Distance between the external creases of the opened out gusset.
- d) **width of end (bottom width),  $c$**  : Distance between the two bottom edge-folds, measured at the centre, parallel to the sack length.
- e) **width of valve,  $g$**  : Internal dimension of the valve between the valve edge-folds or, in the case of a sewn sack, between the valve edge-fold and the adjacent stitch line.
- f) **length of valve,  $f$ , for**
  - 1) **sewn sack** : Distance between the outermost edge of the sack and the innermost edge of the valve/sleeve, measured parallel to the bottom.
  - 2) **pasted hexagonal bottom sack** : Distance between the outermost edge of the sack and the innermost edge of the valve/sleeve minus half of bottom width, measured at the centre parallel to the bottom.
- g) **length of valve sleeve,  $i$**  : Longitudinal dimension of internal or external sleeve, parallel to the bottom.
- h) **width of valve sleeve,  $v$**  : Inner measurement of the sleeve across the bottom, or in the case of a sewn sack between the inner edge of the sleeve and the adjacent stitch line.
- i) **sewing line distance,  $n$**  : Distance of the sewn closure from the sack edge, measured perpendicular to the closure.
- j) **length of closure turn over,  $p$**  : Length of the open flap on a turn over bottom sack, measured at the centre, perpendicular to closure.

**4 Description and dimensional designation** Sacks are described by an indication of their type (open-mouth sewn flat sack, valved sewn flat sack, etc.), followed by the dimensions as indicated in 4.1 and 4.2.

The description of the types of sacks and the dimensional designation is as given in table 1.

NOTE : All figures shown in 4.1 and 4.2 are of completed sacks with the manufacturer's closure.

#### 4.1 Open-mouth sack

**4.1.1 Open-mouth sewn flat sack** (one end sewn flat sack) Sack width  $b$  / sack length  $a$  (see figure 1).

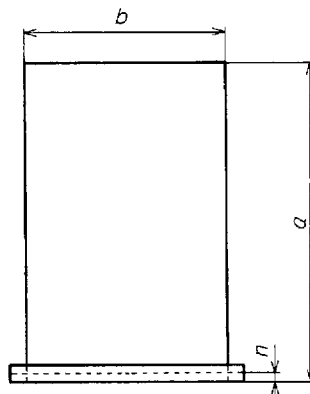
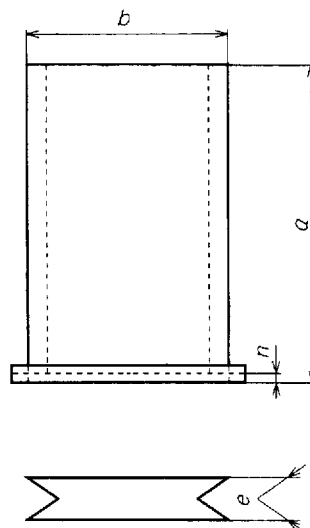


**Figure 1**

**4.1.2 Open-mouth sewn gusseted sack** (one end sewn gusseted sack) Sack width  $b$  / width of gusset  $e$  / sack length  $a$  (see figure 2).



NOTE : Gusset diagram also applies to figures 5 to 8.

**Figure 2**