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## Tea sacks — Specification —

### Part 1:

Reference sack for palletized and  
containerized transport of tea

*Sacs à thé — Spécifications —*

*Partie 1: Sac de référence pour le transport palettisé et conteneurisé du thé*



Reference number  
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9884-1 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 8, *Tea*.

ISO 9884 consists of the following parts, under the general title *Tea sacks — Specification*:

- *Part 1: Reference sack for palletized and containerized transport of tea*
- *Part 2: Performance specification for sacks for palletized and containerized transport of tea*

Annex A forms an integral part of this part of ISO 9884. Annex B is for information only.

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## Introduction

The plywood tea chest was for many years the preferred and standard shipping unit for tea. However, the growing scarcity and cost of plywood in many producing countries has led in recent years to the use of alternatives based on more freely available and cheaper materials, such as paper and cardboard.

Amongst the various alternative forms of bulk packing tested, multi-ply kraft paper sacks have found wide and growing acceptance for the palletized and containerized transport of tea. One particular type of multi-ply paper sack with a polyethylene-bonded aluminium moisture and odour barrier has been developed following a number of transport and storage trials. It has been clearly shown to:

- withstand the handling and stresses involved in palletization, containerization, shipping and unpacking;
- adequately protect tea from the deleterious effect of moisture uptake and exposure to taint;
- load efficiently on to standard four-way entry pallets and into standard freight containers.

This part of ISO 9884 specifies the materials, construction and dimensions of this sack, which is intended to act as a performance reference sack against which sacks of different materials and construction may be tested. Minimum requirements and performance tests for sacks intended for palletized and containerized transport of tea are specified in ISO 9884-2<sup>1)</sup>.

It is anticipated that stronger, puncture-resistant materials (for example, cross-laminated high-density polyethylene) will permit the development and future specification of a reference sack capable of withstanding the stresses involved in handling and transport prior to palletization and containerization.

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1) To be published.

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# Tea sacks — Specification —

## Part 1:

## Reference sack for palletized and containerized transport of tea

### 1 Scope

This part of ISO 9884 specifies the materials, construction and dimensions of a reference sack (valve-pasted, flat, hexagonal-ended sack of stepped-end construction, formed from a stepped-end tube) suitable for the palletized and containerized transport of tea:

- on a four-way entry, 1 120 mm × 1 120 mm, flat, flush-ended pallet to fit the unit load size of 1 140 mm × 1 140 mm specified in ISO 3676;
- in freight containers of the dimensions specified in ISO 668, either closed and non-vented, or closed and corner-post vented (see ISO 830:1981, 4.1.1.1).

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9884. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9884 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 536:1976, *Paper and board — Determination of grammage.*

ISO 668:1988, *Series 1 freight containers — Classification, dimensions and ratings.*

ISO 830:1981, *Freight containers — Terminology.*

ISO 1924-2:1985, *Paper and board — Determination of tensile properties — Part 2: Constant rate of elongation method.*

ISO 1974:1990, *Paper — Determination of tearing resistance (Elmendorf method).*

ISO 2758:1983, *Paper — Determination of bursting strength.*

ISO 3676:1983, *Packaging — Unit load sizes — Dimensions.*

ISO 4797:1981, *Laboratory glassware — Flasks with conical ground joints.*

ISO 6590-1:1983, *Packaging — Sacks — Vocabulary and types — Part 1: Paper sacks.*

ISO 6591-1:1984, *Packaging — Sacks — Description and method of measurement — Part 1: Empty paper sacks.*