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STANDARD

1496-4

First edition
1991-12-15

Series 1 freight containers — Specification and testing —

Part 4:

Non-pressurized containers for dry bulk

Conteneurs de la série 1 — Spécifications et essais —

Partie 4: Conteneurs non pressurisés pour produits solides en vrac



Reference number
ISO 1496-4:1991(E)

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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 1496-4 was prepared by Technical Committee ISO/TC 104, *Freight containers*, Sub-Committee SC 2, *Specific purpose containers*.

ISO 1496 consists of the following parts, under the general title *Series 1 freight containers — Specification and testing*:

- *Part 1: General cargo containers for general purposes*
- *Part 2: Thermal containers*
- *Part 3: Tank containers for liquids, gases and pressurized dry bulk*
- *Part 4: Non-pressurized containers for dry bulk*
- *Part 5: Platform and platform-based containers*
- *Part 6: International cargo-security devices*

Annexes A, B, C, D and E form an integral part of this part of ISO 1496. Annexes F and G are for information only.

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Introduction

The following grouping of container types is used for specification purposes in ISO 1496:

Part 1	
General purpose	00 to 09
Specific purpose	
closed, vented/ventilated	10 to 19
open top	50 to 59
Part 2	
Thermal	30 to 49
Part 3	
Tank	70 to 79
Dry bulk, pressurized	85 to 89
Part 4	
Bulk, non-pressurized (box type)	20 to 24
Bulk, non-pressurized (hopper type)	80 to 84
Part 5	
Platform (container)	60
Platform-based with incomplete superstructure and fixed ends	61 and 62
Platform-based with incomplete superstructure and folding ends	63 and 64
Platform-based with complete superstructure	65 to 69

NOTE 1 Containers types 90 to 99 are reserved for air/surface containers (see ISO 8323).

Series 1 freight containers — Specification and testing —

Part 4:

Non-pressurized containers for dry bulk

1 Scope

1.1 This part of ISO 1496 specifies the basic specifications and testing requirements for ISO series 1 freight containers of the dry bulk container non-pressurized type which are suitable for International exchange and for conveyance by road, rail and sea, including interchange between these forms of transport.

1.2 As the density and flow characteristics of dry bulk cargoes vary widely, containers complying with this part of ISO 1496 are not expected to be suitable for the carriage of all such cargoes. Therefore, except where otherwise stated, the requirements of this International Standard are minimum requirements.

Containers to be used for the carriage of dangerous goods may be subject to additional international and national requirements as applied by competent authorities.

1.3 The container types covered by this part of ISO 1496 are given in table 1.

1.4 The marking requirements for these containers shall be in accordance with the principles embodied in ISO 6346.

NOTE 2 Some types of freight containers constructed in accordance with ISO 1496-1 may satisfactorily be used for the transport of certain non-packed dry bulk solids. Where such containers are used for this purpose, it is essential that care be taken to ensure that the design loadings are not exceeded under operating conditions.

Table 1 — Container types

Type	Type code designation ¹⁾	
	Box types	Hopper types
Dry bulk non-pressurized,		
closed	20	80
vented	21	81
ventilated	22	82
airtight	23	83
[spare]	24	84

1) In accordance with ISO 6346.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1496. 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 1496 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 668:1988, *Series 1 freight containers — Classification, dimensions and ratings*.

ISO 830:1981, *Freight containers — Terminology*, and its amendments: ISO 830:1981/Amd.1:1984 and ISO 830:1981/Amd.2:1988.

ISO 1161:1984, *Series 1 freight containers — Corner fittings — Specification*.