BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

श्रृंखला 1 मालधारक — विशिष्टि और परीक्षण — भाग 3: द्रव्यों, गैसों एवं दाबयुक्त शुष्क बल्क के लिए टेंक धारक (दूसरा पुनरीक्षण)

Draft Indian Standard

SERIES 1 FREIGHT CONTAINERS — SPECIFICATION AND TESTING — PART 3: TANK CONTAINERS FOR LIQUIDS, GASES AND PRESSURIZED DRY BULK

(Second Revision)

ICS: 55.180.10

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Freight Containers Sectional Committee, TED 33

NATIONAL FOREWORD

This draft Indian Standard (Part 3) (Second Revision) which is identical with ISO 1496-3: 2019 'Series 1 Freight Containers — Specification and Testing — Part 3: Tank Containers for liquids, gases and pressurized dry bulk' issued by International Organization for Standardization (ISO), will be adopted by the Bureau of Indian Standards on the recommendations of Freight Containers Sectional Committee and after approval of the Transport Engineering Division Council.

This standard was first published in 1992. The first revision of this standard was taken up to align it with ISO 1496-3: 1995. The second revision of this standard has been undertaken with a view to bring it in line with the latest version of ISO 1496-3.

This standard is one of the parts of Standards published on 'Series 1 Freight Containers — Specification and Testing'. Other parts of the standards in this series are:

- 1) Part 1 General Cargo Containers for General Purposes
- 2) Part 2 Thermal Containers
- 3) Part 4 non-Pressurized containers for dry bulk
- 4) Part 5 Platform and Platform-based Containers

The text of ISO standard is proposed for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, references appear to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of
		Equivalence
ISO 668	IS 6566: 2020/ISO 668: 2013	Identical under dual
		numbering
Series 1 freight	Series 1 Freight Containers —	
containers —	Classification, Dimensions and	
Classification,	Ratings (Fourth Revision)	
dimensions and ratings		

ISO 830	IS 6569: 2004/ ISO 830: 1999	Identical under dual numbering
Freight containers —	Freight containers - Vocabulary	
Vocabulary	(Third Revision)	
ISO 1161	IS 7694: 2021/ ISO 1161: 2016	Identical under dual numbering
Series 1 freight	Series 1 freight containers -	
containers — Corner	Corner fittings - Specification	
fittings —	(Third Revision)	
Specification		
ISO 6346	IS 6928: 2001/ ISO 6346:1995	Identical under dual numbering
Freight containers —	Freight containers - Coding,	
Coding, identification	identification and marking (Third	
and marking	Revision)	

The technical committee has reviewed the provisions of following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

International Standards	Title		
ISO 6487	Road vehicles — Measurement techniques in impact tests —Instrumentation		
EN 13374	Temporary edge protection systems —Product specification — Test methods		

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

Annex A and Annex B forms a nomative part of this Standard.

The standard also makes a reference to the BIS Certification Marking of the product. Details of which are given in National Annex A.

For tropical countries like India, the standard temperature and the relative humidity shall be taken as $27 \pm 2^{\circ}$ C and 65 ± 5 percent relative humidity, respectively and shall be observed while using this standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

SCOPE

This document specifies the basic specifications and testing requirements for ISO series 1 tank containers suitable for the carriage of gases, liquids and solid substances (dry bulk) which canbe loaded or unloaded as liquids by gravity or pressure discharge, for international exchange and for conveyance by road, rail and sea, including interchange between these forms of transport. Except where otherwise stated, the requirements of this document are minimum requirements. The container types covered by this document are given in Table 1.

Table 1 — Container types (in accordance with ISO 6346:1995/Amd 3:2012, Table E1)

Code	Type designation	Type group code
K	Pressurized tank containers (liquids and gases)	KL
N	Pressurized and non-pressurized tank containers(dry)	NH NN NP

The marking requirements for these containers are given in <u>ISO 6346</u>.

FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 1496-3:2019 or CONTACT:

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TED 33 (23645) WC IS 13288 (Part 3): XXXX/ ISO 1496-3: 2019 SEPTEMBER 2023

NATIONAL ANNEX A

(National Foreword)

A-1 BIS CERTIFICATION MARKING

Tank containers for liquids, gases and pressurized dry bulk may also be marked with the Standard Mark.

A-1.1 The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.