



**Flexible intermediate bulk containers —
Non-dangerous goods**

STANDARDS
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AS 3668:2019

This Australian Standard® was prepared by PK-011, Flexible Intermediate Bulk Containers. It was approved on behalf of the Council of Standards Australia on 12 December 2019.

This Standard was published on 20 December 2019.

The following are represented on Committee PK-011:

Australian Flexible Intermediate Bulk Container Association
Australian Institute of Packaging
Australian Maritime Safety Authority
Department of Environment and Science, Qld
International Cargo Handling Co-ordination Association Australia

This Standard was issued in draft form for comment as DR AS 3668:2019.

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ISBN 978 1 76072 692 8



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Originates as AS 3668—1989.
Second edition AS 3668:2019.
Reissued incorporating Amendment No 1 (April 2020).

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Preface

This Standard was prepared by Standards Australia Committee PK-011, Flexible Intermediate Bulk Containers, to supersede AS 3668—1989.

This Standard incorporates Amendment No. 1 (April 2020). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide specifications and type tests to ensure flexible intermediate bulk containers are suitable for non-dangerous solid materials in powder and granular form.

Committee PK-011 reviewed ISO 21898, *Packaging — Flexible intermediate bulk containers (FIBCs) for non-dangerous goods*, but decided not to adopt it as an Australian Standard because it does not meet Australian requirements.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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Flexible intermediate bulk containers — Non-dangerous goods

1 Scope

This Standard specifies material, construction and design requirements, together with type tests and type test performance requirements for single-trip and multi-trip intermediate bulk containers manufactured from flexible materials to contain non-dangerous solid materials in powder or granular form, and designed to be lifted from above.

This Standard takes no account of the particular requirements relating to materials, construction and performance that would need to be applied to intermediate bulk containers used for the conveyance and storage of substances deemed dangerous in legislation relating to dangerous goods.

NOTE Guidance to users on selection and use of containers is given in [Appendix A](#).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents for informative purposes are listed in the Bibliography.

AS 2582.3, *Complete, filled transport packages — Methods of test, Method 3: Stacking tests using a static load*

AS 2582.4, *Complete, filled transport packages — Methods of test, Method 4: Vertical impact test by dropping*

ISO 13934-1, *Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method*

ASTM G154-98, *Practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of non-metallic materials*

3 Terms and definitions

For the purpose of this Standard the definitions below apply.

3.1

competent person

person who has acquired, through education, training, qualification or experience or a combination of these, the knowledge and skill enabling that person to perform the task required

3.2

flexible intermediate bulk container

bulk bags

FIBC

container manufactured from flexible materials having a capacity of not more than 3 m³ and designed to be lifted from above multiple times

Note 1 to entry: For further information on FIBC lifting and filling, refer to AFIBCA *Code of Practice for Supply and Use of FIBCs*. Section 7(c).

3.3

FIBC, single-trip

FIBC to be used for one filling and one discharge only

Note 1 to entry: An FIBC of this category cannot be reused.