

AS ISO 16106—2007

ISO 16106:2006

Reconfirmed 2018

AS ISO 16106—2007

Australian Standard[®]

Transport packages for dangerous goods—Dangerous goods packagings, intermediate bulk containers (IBCs) and large packagings—Guidelines for the application of ISO 9001

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This Standard was issued in draft form for comment as DR 07255.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS ISO 16106–2007

**Transport packages for dangerous goods – Dangerous goods packagings,
intermediate bulk containers (IBCs) and large packagings – Guidelines for the
application of ISO 9001**

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NOTES

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First published as AS ISO 16106—2007.

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Published by Standards Australia, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8369 4

PREFACE

This Standard was prepared by Standards Australia/Standards New Zealand Committee CH-009, Safe Handling of Chemicals. It is identical with and has been reproduced from ISO 16106:2006, *Packaging—Transport packages for dangerous goods—Dangerous goods packagings, intermediate bulk containers (IBCs) and large packagings—Guidelines for the application of ISO 9001*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO	AS/NZS ISO
9000 Quality management systems— Fundamentals and vocabulary	9000 Quality management systems— Fundamentals and vocabulary
9001 Quality management systems— Requirements	9001 Quality management systems— Requirements
	AS ISO
16104 Packaging—Transport packaging for dangerous goods—Test methods	16104 Transport packaging for dangerous goods—Test methods
16467 Packaging—Transport packages for dangerous goods—Test methods for IBCs	16467 Transport packages for dangerous goods—Test methods for IBCs
ISO/IEC	AS ISO/IEC
17050 Conformity assessment—Supplier’s declaration of conformity	17050 Conformity assessment—Supplier’s declaration of conformity
17050-2 Part 2: Supporting documentation	17050.2 Part 2: Supporting documentation

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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INTRODUCTION

This International Standard gives guidance for the application of the ISO 9000 quality management system to the manufacture, measuring and monitoring of design type approved dangerous goods packagings, Intermediate Bulk Containers (IBCs) and large packagings.

The United Nations Recommendations on the Transport of Dangerous Goods^[1] (referred to in this International Standard as the UN Model Regulations) require the application of a quality assurance programme for the manufacture and testing of packagings, IBCs and large packagings that satisfies the competent authority in order to ensure that each manufactured packaging, IBC and large packaging meets the requirements.

The UN Model Regulations are given legal entity by the provision of a series of international modal agreements and national legislation for the transport of dangerous goods. These international agreements include

- the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)^[2];
- the Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)^[3];
- the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air^[4];
- the International Maritime Dangerous Goods Code (IMDG)^[5].

The application of this International Standard will need to take into account the requirements of these international agreements and the national legislation for the transport of dangerous goods.

Compliance with this International Standard does not replace the agreement of competent authorities with quality assurance programmes. In conjunction with ISO 9001, this International Standard specifies a system for applying quality processes and assurance to the production of dangerous goods packagings, IBCs and large packagings.

The change in terminology in the ISO 9000 series from "quality assurance programmes" (1987 edition), over "quality systems" (1994 edition) to "quality management systems" (2000 edition), is not reflected in the UN Model Regulations and the international agreements referred to in the bibliography of this International Standard. The former term "quality assurance programme" is still used there. Furthermore, the term "testing", which was used in the 1994 edition of the ISO 9000 series in the context of product inspection and testing has now been replaced by "measurement and monitoring" in the 2000 edition. For the purposes of this International Standard, the latest terminology is used in accordance with ISO 9000. This difference in terminology should not deter users from using this International Standard.

The reasons for establishing this International Standard in addition to the ISO 9000 series are as follows.

- a) The wording of the requirements in 6.1.1.4, 6.5.1.6.1 and 6.6.1.2 of the UN Model Regulations is restricted to the bare need that a quality assurance programme be applied that satisfies the competent authority. This allows different interpretations.
- b) Dangerous goods packagings, IBCs and large packagings are subject to legal requirements. The conformity of any manufactured item with the relevant legal provisions is based on the principle of official design type testing and approval, which requires that specific measures be applied in order to secure the conformity of any of the unlimited number of items with the requirements of an approved design. Quality assurance can help standardize these specific measures.

- c) In view of the cost implications of quality assurance/quality management measures, complete freedom of interpretation could have an avoidable negative impact on competition.
- d) The establishment of quality assurance/quality management measures is, particularly for smaller companies, a large undertaking and calls for further guidance.
- e) Interactions between companies and competent authorities on the adequacy of quality assurance/quality management programmes need to be rationalized to minimize unnecessary effort.

This International Standard is based on Revision 14 of the UN Model Regulations.

Clause referencing in this International Standard corresponds to ISO 9001:2000, with the exception of the annexes.

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