

BSI Standards Publication

Primary packaging materials for medicinal products - Particular requirements for the application of ISO 9001:2015, with reference to good manufacturing practice (GMP) (ISO 15378:2017)



BS EN ISO 15378:2017 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN ISO 15378:2017. It is identical to ISO 15378:2017. It supersedes BS EN ISO 15378:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/212, IVDs.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2017 Published by BSI Standards Limited 2017

ISBN 978 0 580 95555 6

ICS 03.100.70; 11.040.01; 03.120.10

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2017.

Amendments/corrigenda issued since publication

Date Text affected

EUROPEAN STANDARD

EN ISO 15378

NORME EUROPÉENNE EUROPÄISCHE NORM

October 2017

ICS 03.100.70; 11.040.01

Supersedes EN ISO 15378:2015

English Version

Primary packaging materials for medicinal products
- Particular requirements for the application of ISO 9001:2015, with reference to good manufacturing practice (GMP) (ISO 15378:2017)

Articles d'emballage primaire pour médicaments -Exigences particulières pour l'application de l'ISO 9001:2015 prenant en considération les Bonnes Pratiques de Fabrication (BPF) (ISO 15378:2017) Primärpackmittel für Arzneimittel - Besondere Anforderungen für die Anwendung von ISO 9001:2015 entsprechend der Guten Herstellungspraxis (GMP) (ISO 15378:2017)

This European Standard was approved by CEN on 13 October 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2017 CEN

All rights of exploitation in any form and by any means reserved worldwide for CEN national Members

Ref. No. EN ISO 15378:2017: E

This is a preview. Click here to purchase the full publication.

European foreword

This document (EN ISO 15378:2017) has been prepared by Technical Committee ISO/TC 76 "Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 15378:2015.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 15378:2017 has been approved by CEN as EN ISO 15378:2017 without any modification.

Co	ntent	CS CONTRACTOR OF THE CONTRACTO	Page
Fore	eword		v
Intr	oductio	on	vi
1	Scon	oe	1
2	-	native references	
3	Terms and definitions		
	3.1	Terms related to organization	
	3.2	Terms related to activity	
	3.3	Terms related to system	4
	3.4	Terms related to requirement	5
	3.5	Terms related to process	
	3.6	Terms related to results	
	3.7	Terms related to data, information and document	
	3.8 3.9	Terms related to action	
	3.9	Terms related to determination	
	3.11	Terms relating to risk management	
4		ext of the organization	
	4.1 4.2	Understanding the organization and its context	
	4.2	Determining the scope of the quality management system	
	4.4	Quality management system and its processes	
_			
5		lership	
	5.1	Leadership and commitment 5.1.1 General	
		5.1.2 Customer focus	
		5.1.3 Customer audits	
	5.2	Policy	
	5.3	Organizational roles, responsibilities and authorities	
6	Plan	ning	17
	6.1	Actions to address risks and opportunities	17
	6.2	Quality objectives and planning to achieve them	
	6.3	Planning of changes	19
7	Supp	oort	19
	7.1	Resources	
		7.1.1 General	
		7.1.2 People	
		7.1.3 Infrastructure	
		7.1.4 Environment for the operation of processes	
		7.1.5 Monitoring and measuring resources	
	7.2	7.1.6 Organizational knowledge	
	7.2	7.2.1 General	
		7.2.2 GMP-training	
	7.3	Awareness	
	7.4	Communication	
	7.5	Documented information	
		7.5.1 General	
		7.5.2 Creating and updating	
		7.5.3 Control of documented information	
		7.5.4 Administration of IT systems and data	28
R	Onei	ration	29

	8.1	Operational planning and control	
	8.2	Requirements for products and services	
		8.2.1 Customer communication	
		8.2.2 Determining the requirements for products and services	
		8.2.3 Review of the requirements for products and services	31
		8.2.4 Changes to requirements for products and services	32
	8.3	Design and development of products and services	32
		8.3.1 General	32
		8.3.2 Design and development planning	32
		8.3.3 Design and development inputs	
		8.3.4 Design and development controls	
		8.3.5 Design and development outputs	
		8.3.6 Design and development changes	34
	8.4	Control of externally provided processes, products and services	35
		8.4.1 General	
		8.4.2 Type and extent of control	
		8.4.3 Information for external providers	
	8.5	Production and service provision	
		8.5.1 Control of production and service provision	
		8.5.2 Identification and traceability	
		8.5.3 Property belonging to customers or external providers	
		8.5.4 Preservation	
		8.5.5 Post-delivery activities	
	0.6	8.5.6 Control of changes	
	8.6	Release of products and services	
	8.7	Control of nonconforming outputs	
9	Perfo	rmance evaluation	45
	9.1	Monitoring, measurement, analysis and evaluation	45
		9.1.1 General	45
		9.1.2 Customer satisfaction	45
		9.1.3 Analysis and evaluation	
	9.2	Internal audit	
	9.3	Management review	
		9.3.1 General	
		9.3.2 Management review inputs	
		9.3.3 Management review outputs	49
10	Impr	ovement	50
10	10.1	General	
	10.2	Nonconformity and corrective action	
	10.3	Continual improvement	
A		•	
		ormative) Clarification of new structure, terminology and concepts	52
Anne		ormative) Other International Standards on quality management and quality	
		gement systems developed by ISO/TC 176	
Anne	x C (no	mative) GMP requirements for printed primary packaging materials	60
Anne		ormative) Guidance on verification, qualification and validation requirements	
	for pi	imary packaging materials	64
Bibli	ograph	y	75
Alph	ahetica	index of defined terms used in this document	77

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 76, *Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use.*

This fourth edition cancels and replaces the third edition (ISO 15378:2015), which has been technically revised. The main technical and editorial changes comprise:

- the integration of the sector-specific requirements on quality management systems for medicinal products into ISO 9001:2015;
- the deletion of the requirements on quality manual;
- the inclusion of all annexes of ISO 9001:2015 into this document;
- adjustments to the terminology of ISO 9000:2015, where relevant;
- the inclusion of an alphabetical index of defined terms used in this document.

Introduction

0.1 General

This document identifies Good Manufacturing Practice (GMP) principles and specifies requirements for a quality management system applicable to primary packaging materials for medicinal products. The realization of GMP principles in production and control of primary packaging materials within organizations is of great importance for the safety of a patient using the medicinal product, because of their direct product contact. The application of GMP for pharmaceutical packaging materials helps ensure that these materials meet the needs and requirements of the pharmaceutical industry.

This document is an application standard for primary packaging materials, which contains the text of ISO 9001:2015.

The conventions for the layout of this document are the following.

- Those clauses, subclauses or annexes that are quoted directly and unchanged from ISO 9001:2015 and ISO 9000:2015 (under <u>Clause 3</u>) are in boxes.
- Additional GMP related requirements and recommendations as well as terms and definitions relevant to the manufacture of primary packaging materials are outside boxes.

ISO 9001:2015, Quality management systems — Requirements

0.1 General

The adoption of a quality management system is a strategic decision for an organization that can help to improve its overall performance and provide a sound basis for sustainable development initiatives.

The potential benefits to an organization of implementing a quality management system based on this International Standard are:

- a) the ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements:
- b) facilitating opportunities to enhance customer satisfaction;
- c) addressing risks and opportunities associated with its context and objectives;
- d) the ability to demonstrate conformity to specified quality management system requirements.

This International Standard can be used by internal and external parties.

It is not the intent of this International Standard to imply the need for:

- uniformity in the structure of different quality management systems;
- alignment of documentation to the clause structure of this International Standard;
- the use of the specific terminology of this International Standard within the organization.

The quality management system requirements specified in this International Standard are complementary to requirements for products and services.

This International Standard employs the process approach, which incorporates the Plan-Do-Check-Act (PDCA) cycle and risk-based thinking.

The process approach enables an organization to plan its processes and their interactions.

The PDCA cycle enables an organization to ensure that its processes are adequately resourced and managed, and that opportunities for improvement are determined and acted on.

Risk-based thinking enables an organization to determine the factors that could cause its processes and its quality management system to deviate from the planned results, to put in place preventive controls to minimize negative effects and to make maximum use of opportunities as they arise (see Clause A.4).

Consistently meeting requirements and addressing future needs and expectations poses a challenge for organizations in an increasingly dynamic and complex environment. To achieve this objective, the organization might find it necessary to adopt various forms of improvement in addition to correction and continual improvement, such as breakthrough change, innovation and re-organization.

In this International Standard, the following verbal forms are used:

- "shall" indicates a requirement;
- "should" indicates a recommendation;
- "may" indicates a permission;
- "can" indicates a possibility or a capability.

Information marked as "NOTE" is for guidance in understanding or clarifying the associated requirement.

A key objective of this document is to specify GMP for primary packaging materials.

0.2 Quality management principles

ISO 9001:2015, Quality management systems — Requirements

0.2 Quality management principles

This International Standard is based on the quality management principles described in ISO 9000. The descriptions include a statement of each principle, a rationale of why the principle is important for the organization, some examples of benefits associated with the principle and examples of typical actions to improve the organization's performance when applying the principle.

The quality management principles are:

- customer focus;
- leadership;
- engagement of people;
- process approach;
- improvement;
- evidence-based decision making;
- relationship management.

0.3 Process approach

0.3.1 General

ISO 9001:2015, Quality management systems — Requirements

0.3 Process approach

0.3.1 General

This International Standard promotes the adoption of a process approach when developing, implementing and improving the effectiveness of a quality management system, to enhance customer satisfaction by meeting customer requirements. Specific requirements considered essential to the adoption of a process approach are included in 4.4.

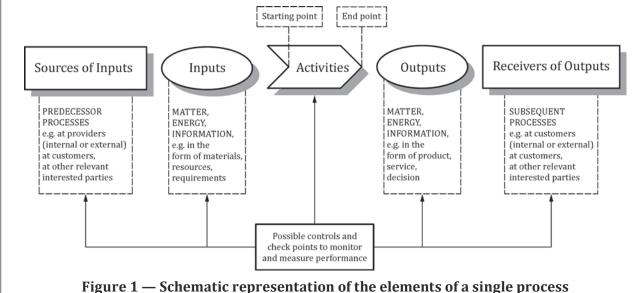
Understanding and managing interrelated processes as a system contributes to the organization's effectiveness and efficiency in achieving its intended results. This approach enables the organization to control the interrelationships and interdependencies among the processes of the system, so that the overall performance of the organization can be enhanced.

The process approach involves the systematic definition and management of processes, and their interactions, so as to achieve the intended results in accordance with the quality policy and strategic direction of the organization. Management of the processes and the system as a whole can be achieved using the PDCA cycle (see 0.3.2) with an overall focus on risk-based thinking (see 0.3.3) aimed at taking advantage of opportunities and preventing undesirable results.

The application of the process approach in a quality management system enables:

- a) understanding and consistency in meeting requirements;
- b) the consideration of processes in terms of added value;
- c) the achievement of effective process performance;
- d) improvement of processes based on evaluation of data and information.

Figure 1 gives a schematic representation of any process and shows the interaction of its elements. The monitoring and measuring check points, which are necessary for control, are specific to each process and will vary depending on the related risks.

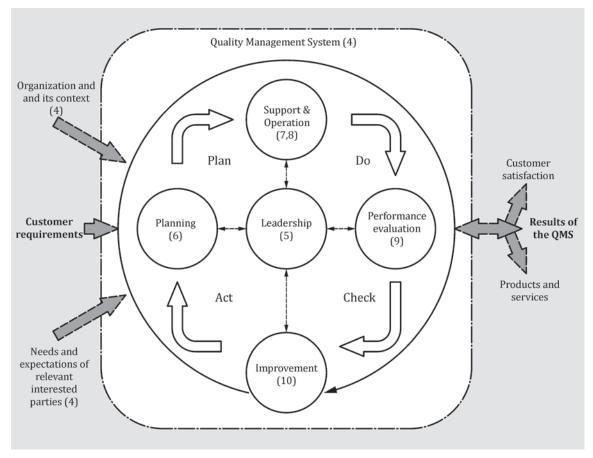


0.3.2 Plan-Do-Check-Act cycle

ISO 9001:2015, Quality management systems — Requirements

0.3.2 Plan-Do-Check-Act cycle

The PDCA cycle can be applied to all processes and to the quality management system as a whole. Figure 2 illustrates how <u>Clauses 4</u> to <u>10</u> can be grouped in relation to the PDCA cycle.



NOTE Numbers in brackets refer to the clauses in this International Standard.

Figure 2 — **Representation of the structure of this International Standard in the PDCA cycle** The PDCA cycle can be briefly described as follows:

- Plan: establish the objectives of the system and its processes, and the resources needed to deliver results in accordance with customers' requirements and the organization's policies, and identify and address risks and opportunities;
- Do: implement what was planned;
- **Check**: monitor and (where applicable) measure processes and the resulting products and services against policies, objectives, requirements and planned activities, and report the results;
- Act: take actions to improve performance, as necessary.