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**Primary packaging materials for  
medicinal products — Particular  
requirements for the application of  
ISO 9001:2000, with reference to  
Good Manufacturing Practice (GMP)**

**iTeh STANDARD PREVIEW**  
*Matériaux d'emballage primaire pour médicaments — Exigences  
particulières pour l'application de l'ISO 9001:2000 prenant en  
considération les Bonnes Pratiques de Fabrication (BPF)*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 15378 was prepared by Technical Committee ISO/TC 76, *Transfusion, infusion and injection equipment for medical and pharmaceutical use*.

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## 0 Introduction

### 0.1 General

*This International Standard 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 should ensure that these materials meet the needs and requirements of the pharmaceutical industry.*

*This International Standard is an application standard for primary packaging materials which contains the requirements text of ISO 9001:2000.*

*The conventions for the layout of this International Standard are the following.*

- *Those clauses or subclauses that are quoted directly and unchanged from ISO 9001:2000 are in boxed text.*
- *Texts in italics contain additionally relevant GMP requirements for primary packaging materials.*
- *GMP terms and definitions are included in Clause 3. If listed, the source is referred to in brackets.*

#### ISO 9001:2000, Quality management systems — Requirements

##### 0.1 General

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The adoption of a quality management system should be a strategic decision of an organization. The design and implementation of an organization's quality management system is influenced by varying needs, particular objectives, the products provided, the processes employed and the size and structure of the organization. It is not the intent of this International Standard to imply uniformity in the structure of quality management systems or uniformity of documentation.

The quality management system requirements specified in this International Standard are complementary to requirements for products. Information marked "NOTE" is for guidance in understanding or clarifying the associated requirement.

This International Standard can be used by internal and external parties, including certification bodies, to assess the organization's ability to meet customer, regulatory and the organization's own requirements.

The quality management principles stated in ISO 9000 and ISO 9004 have been taken into consideration during the development of this International Standard.

*A key objective of this International Standard is to define harmonized primary packaging material requirements. It includes some particular requirements for primary packaging materials, which are derived from Good Manufacturing Practices for the production, control, etc. of medicinal products.*

## 0.2 Process approach

### ISO 9001:2000, Quality management systems — Requirements

#### 0.2 Process approach

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.

For an organization to function effectively, it has to identify and manage numerous linked activities. An activity using resources, and managed in order to enable the transformation of inputs into outputs, can be considered as a process. Often the output from one process directly forms the input to the next.

The application of a system of processes within an organization, together with the identification and interactions of these processes, and their management, can be referred to as the “process approach”.

An advantage of the process approach is the ongoing control that it provides over the linkage between the individual processes within the system of processes, as well as over their combination and interaction.

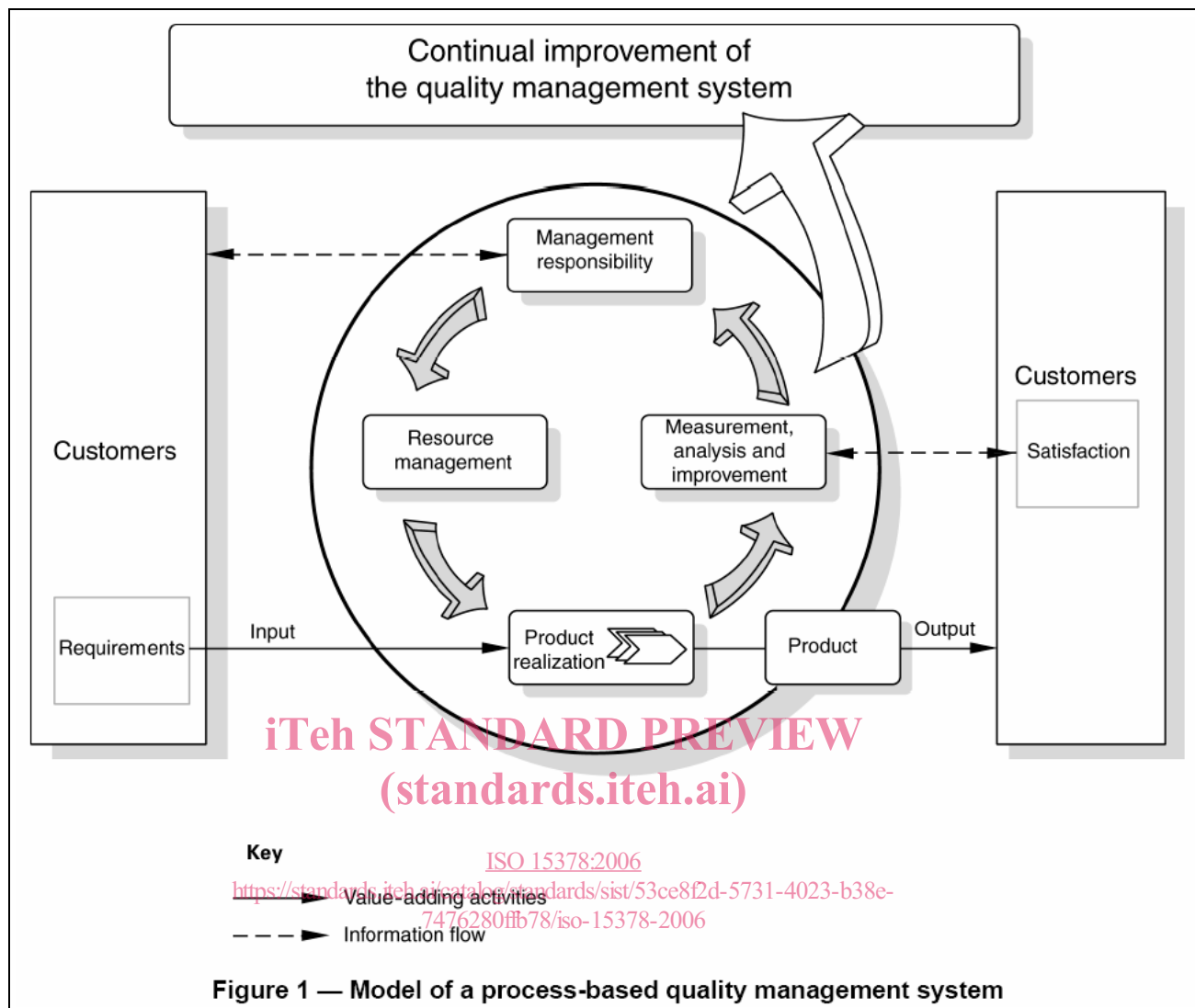
When used within a quality management system, such an approach emphasizes the importance of

- a) understanding and meeting requirements,
- b) the need to consider processes in terms of added value,
- c) obtaining results of process performance and effectiveness, and
- d) continual improvement of processes based on objective measurement.

The model of a process-based quality management system shown in Figure 1 illustrates the process linkages presented in clauses 4 to 8. This illustration shows that customers play a significant role in defining requirements as inputs. Monitoring of customer satisfaction requires the evaluation of information relating to customer perception as to whether the organization has met the customer requirements. The model shown in Figure 1 covers all the requirements of this International Standard, but does not show processes at a detailed level.

NOTE In addition, the methodology known as “Plan-Do-Check-Act” (PDCA) can be applied to all processes. PDCA can be briefly described as follows.

- Plan: establish the objectives and processes necessary to deliver results in accordance with customer requirements and the organization's policies.
- Do: implement the processes.
- Check: monitor and measure processes and product against policies, objectives and requirements for the product and report the results.
- Act: take actions to continually improve process performance.



### 0.3 Relationship with ISO 9004

#### ISO 9001:2000, Quality management systems — Requirements

##### 0.3 Relationship with ISO 9004

The present editions of ISO 9001 and ISO 9004 have been developed as a consistent pair of quality management system standards which have been designed to complement each other, but can also be used independently. Although the two International Standards have different scopes, they have similar structures in order to assist their application as a consistent pair.

ISO 9001 specifies requirements for a quality management system that can be used for internal application by organizations, or for certification, or for contractual purposes. It focuses on the effectiveness of the quality management system in meeting customer requirements.

ISO 9004 gives guidance on a wider range of objectives of a quality management system than does ISO 9001, particularly for the continual improvement of an organization's overall performance and efficiency, as well as its effectiveness. ISO 9004 is recommended as a guide for organizations whose top management wishes to move beyond the requirements of ISO 9001, in pursuit of continual improvement of performance. However, it is not intended for certification or for contractual purposes.

#### 0.4 Compatibility with other management systems

*This International Standard incorporates the requirements of ISO 9001:2000 and additionally particular requirements for primary packaging materials, which are derived and adapted, as appropriate, from Good Manufacturing Practices for the production and control of medicinal products.*

#### ISO 9001:2000, Quality management systems — Requirements

#### 0.4 Compatibility with other management systems

This International Standard has been aligned with ISO 14001:1996 in order to enhance the compatibility of the two standards for the benefit of the user community.

This International Standard does not include requirements specific to other management systems, such as those particular to environmental management, occupational health and safety management, financial management or risk management. However, this International Standard enables an organization to align or integrate its own quality management system with related management system requirements. It is possible for an organization to adapt its existing management system(s) in order to establish a quality management system that complies with the requirements of this International Standard.

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# Primary packaging materials for medicinal products — Particular requirements for the application of ISO 9001:2000, with reference to Good Manufacturing Practice (GMP)

## 1 Scope

### 1.1 General

*This International Standard specifies requirements for a quality management system where an organization needs to demonstrate its ability to provide primary packaging materials for medicinal products, which consistently meet customer requirements, including regulatory requirements and International Standards applicable to primary packaging materials.*

*In this International Standard the term “if appropriate” is used several times. When a requirement is qualified by this phrase, it is deemed to be “appropriate” unless the organization can document a justification otherwise.*

#### ISO 9001:2000, Quality management systems — Requirements

##### 1.1 General

This International Standard specifies requirements for a quality management system where an organization

- needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements, and
- aims to enhance customer satisfaction through the effective application of the system, including processes for continual improvement of the system and the assurance of conformity to customer and applicable regulatory requirements.

NOTE In this International Standard, the term “product” applies only to the product intended for, or required by, a customer.

### 1.2 Application

*This International Standard is an application standard for the design, manufacture and supply of primary packaging materials for medicinal products. It is also applicable for certification purposes.*

#### ISO 9001:2000, Quality management systems — Requirements

##### 1.2 Application

All requirements of this International Standard are generic and are intended to be applicable to all organizations, regardless of type, size and product provided.

Where any requirement(s) of this International Standard cannot be applied due to the nature of an organization and its product, this can be considered for exclusion.

Where exclusions are made, claims of conformity to this International Standard are not acceptable unless these exclusions are limited to requirements within clause 7, and such exclusions do not affect the organization's ability, or responsibility, to provide product that meets customer and applicable regulatory requirements.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

### ISO 9001:2000, Quality management systems — Requirements

#### 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 9000:2000, *Quality management systems — Fundamentals and vocabulary*.

ISO 9001:2000, *Quality management systems — Requirements*

ISO 14644-1:1999, *Cleanrooms and associated controlled environments — Part 1: Classification of air cleanliness*

ISO 14644-2:2000, *Cleanrooms and associated controlled environments — Part 2: Specifications for testing and monitoring to prove continued compliance with ISO 14644-1*

ISO 14644-3, *Cleanrooms and associated controlled environments — Part 3: Test methods*

ISO 14644-4:2001, *Cleanrooms and associated controlled environments — Part 4: Design, construction and start-up*

ISO 14644-5, *Cleanrooms and associated controlled environments — Part 5: Operations*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9000 and the following apply.

### ISO 9001:2000, Quality management systems — Requirements

#### 3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 9000 apply.

The following terms, used in this edition of ISO 9001 to describe the supply chain, have been changed to reflect the vocabulary currently used:



The term “organization” replaces the term “supplier” used in ISO 9001:1994, and refers to the unit to which this International Standard applies. Also, the term “supplier” now replaces the term “subcontractor”.

Throughout the text of this International Standard, wherever the term “product” occurs, it can also mean “service”.

NOTE 1 In addition, the terminology **subcontractor** (see 3.61) and **outsourcing** (see 3.34) is used for this International Standard.

NOTE 2 The term “subcontractor” is still predominantly used in the pharmaceutical packaging industry over that of “supplier”.

*Additional terms and definitions used in this International Standard are specific to Good Manufacturing Practices applicable to the manufacture of primary packaging materials for medicinal products.*

### 3.1

#### **air-lock**

*enclosed space to control air-flow*

*NOTE The space typically has at least two interlocked doors between two or more rooms, used by either people or for goods, to control for different conditions, e.g. cleanliness, air-flow upon entering.*

### 3.2

#### **approved**

*confirmed conformity status*

*NOTE Conformity can be confirmed for any stage of the process (starting materials, process aids, packaging material or finished product).*

### 3.3

#### **assembly**

*fitting together of **primary packaging materials** (3.35.1) and/or components*

*NOTE Examples may include pipette assemblies for filling, prepared components of injection systems or positioning of needle shields on prefillable syringes.*

### 3.4

#### **automated inspection**

*conformity evaluation performed by inspection equipment without manual intervention*

*NOTE The inspection equipment can include optoelectronics (cameras), laser systems, ultrasonics and their associated data processing functions or others.*

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### 3.5

#### **batch**

#### **lot**

*defined quantity of **primary packaging material** (3.35.1) manufactured in one process or series of processes intended to have uniform characteristics with consistent, homogeneous quality*

*NOTE 1 To meet production requirements or customer needs, a batch can be divided up into a number of sub-batches that are later combined to form a single, consistent batch.*

*NOTE 2 In the case of continuous production, the batch is a fraction of the production defined either as a fixed quantity or as the amount produced in a fixed time interval.*

### 3.6

#### **batch document**

#### **batch record**

*documents and records that provide a history of the **batch** (3.5), including information relating to its production and control, and which facilitate its **traceability** (3.63)*

### 3.7

#### **batch number**

#### **lot number**

*unique identifier to identify a **batch** or **lot** (3.5)*

*NOTE A batch number can be a combination of numbers, letters and/or symbols which identifies a batch (or lot) and from which the production and distribution history can be determined.*

### 3.8

#### **batch release**

decision to release the **batch** (3.5) for sale or supply, following a formal review of the **batch document** (3.6) performed by the **quality unit** (3.41) or a person authorized by the quality unit(s)

### 3.9

#### **calibration**

process of checking or adjusting (by comparison with a reference standard) the accuracy of a measuring instrument

*NOTE* Calibration can also be described as the set of operations which establish, under specified conditions, the relationship between values indicated by a measuring instrument or values represented by a material measure, and the corresponding known values of a reference standard.

### 3.10

#### **change control**

documented control of changes

*NOTE* Changes may include, e.g. changes in raw materials, specifications, facilities, equipment, production processes and test methods.

### 3.11

#### **cleanroom**

room in which the concentration of airborne particles is controlled, and which is constructed and used in a manner to minimize the introduction, generation, and retention of particles inside the room, and in which other relevant parameters, e.g. temperature, humidity, and pressure, are controlled as necessary

[ISO 14644-1:1999, 2.1.1]

### 3.12

#### **clean zone**

dedicated space in which the concentration of airborne particles is controlled, and which is constructed and used in a manner to minimize the introduction, generation, and retention of particles inside the zone, and in which other relevant parameters, e.g. temperature, humidity, and pressure, are controlled as necessary

[ISO 14644-1:1999, 2.1.2]

*NOTE* This zone may be open or enclosed and may or may not be located within a clean room.

### 3.13

#### **contamination**

introduction of any unwanted material into the **primary packaging material** (3.35.1)

*NOTE 1* A finished product can be contaminated by physical (particulate), chemical or biological (bio- and endotoxin burden) action.

*NOTE 2* Contamination can occur during production, packaging, storage and/or distribution from contaminated air systems, personnel, sampling equipment, materials, premises or containers.

### 3.14

#### **controlled area**

#### **controlled environment**

area or environment constructed and operated to control the possible introduction of potential contaminants

*NOTE 1* The area is typically constructed and operated to control the introduction of potential contamination and the consequences of accidental release of living organisms.

*NOTE 2* An appropriate pressure differential allows for the efficient removal of airborne contaminants, potential contamination and the consequences of accidental release.

**3.15****cross-contamination****mix-up**

**contamination** (3.13) of a material or of a product with another material or product

[EC Guide to GMP]

NOTE Cross-contamination may also be referred to as admixture.

**3.16****customer complaint**

customer information about deficiencies and/or nonconformities

NOTE 1 The information may be verbally communicated or written.

NOTE 2 The subject of a complaint can include primary packaging material quality, quantity or supply.

**3.17****date of manufacture**

date on which one of the first stages in the process of manufacture of the primary packaging material, or the packaging, or the final release, occurs, and which may be subject to customer agreement

**3.18****deviation**

departure from an approved **standard operating procedure (SOP)** (3.58) or established standard

**3.19****documented procedure**

procedure that is established, documented, authorized, implemented and maintained

**3.20****double-check**

documented **verification** (3.65) of an activity, result or record by a second person or system

NOTE A second in-process control check signature, production and quality records for a batch signed by a second person or electronic checks can be part of this verification process. Double-checks typically are signed by a second person.

**3.21****expiration date**

expected suitable use limit. See also definition **shelf-life** (3.56)

NOTE This is typically the period during which a primary packaging material is expected to remain suitable for use if stored under defined conditions and after which it should not be used.

**3.22****final inspection**

tests carried out on the **finished product** (3.23) to determine compliance with the specification

**3.23****finished product**

**primary packaging material** (3.35.1) which has completed all stages of **production** (3.37)

**3.24****Good Manufacturing Practice****GMP**

quality control and quality assurance applied in **manufacturing** (3.29)

NOTE 1 For the definitions of quality control and quality assurance see ISO 9000:2000 (3.2.10 and 3.2.11).

NOTE 2 Requirements for Good Manufacturing Practice in the pharmaceutical industry are specified in a quality assurance standard entitled "EC Guide to Good Manufacturing Practice".

NOTE 3 Good Manufacturing Practice (GMP) for primary packaging materials requires, in addition to suitable provision of personnel, premises and equipment, a quality management system that includes controls for incoming starting materials, manufacture, corresponding documentation, factory hygiene, final inspection, records of distribution, processing of complaints and self-inspection.

NOTE 4 GMP and current Good Manufacturing Practice (cGMP) are equivalent. GMP guidelines are continually updated to the ever-changing requirements of the state-of-the-art. This resulted in the term cGMP sometimes being used. The pharmaceutical industry expects that organizations take account of current GMP within their continual improvement programmes.

**3.25**  
**homogeneity**

uniformity of characteristics and their values throughout a defined quantity of material

NOTE Homogeneity can include uniformity of materials or certain characteristics of materials of special significance.

**3.26**  
**in-process control**

actions taken during the production process to test product conformity to its specification

NOTE 1 Monitoring processes and adjusting the means of production can be necessary to meet product requirements.

NOTE 2 The control of the environment or equipment can also be regarded as a part of in-process control.

**3.27**  
**intermediate product**

**primary packaging material** (3.35.1) which has completed some but not all production stages

NOTE An intermediate product needs further processing before it becomes a finished product.

**3.28**  
**line clearance**

removal (line purge) of everything associated with the prior production run

NOTE Line clearance typically is done previous to a production run to prevent any error and cross-contamination. Typically it is required that a production facility (line) and its associated working area are completely clear of all materials, waste, products, samples, documents etc. used in the prior production run before the introduction of materials, product samples, documents etc. needed for the commencement of the next production run.

**3.29**  
**manufacturing**

all operations of purchase of materials and **primary packaging materials** (3.35.1), **production** (3.37), **quality control** (3.39), release, storage, distribution of products and the related controls

**3.30**  
**medicinal product**

any substance or combination of substances presented for treating or preventing disease in human beings or animals

[EC Guide to GMP]

NOTE 1 Any substance or combination of substances that may be administered to human beings or animals with a view to making a medical diagnosis or to restoring, correcting or modifying physiological functions in human beings or in animals is likewise considered a medicinal product.

NOTE 2 Medicinal product may also be referred to as the pharmaceutical or drug product including clinical trial products.

**3.31****organization**

group of people and facilities with an arrangement of responsibilities, authorities and relationships

[ISO 9000:2000]

NOTE In this International Standard the organization is the company manufacturing the primary packaging material.

**3.32****origination****artwork**

all preparative activities prior to print

NOTE These include concept, design, graphics, reprographics, film, plate making, silk screens and digital files and masters.

**3.33****out of specification****OOS**

test results that do not comply with the **specification** (3.57)

**3.34****outsourcing**

provision of all or part of a process provided by another **organization** (3.31)

NOTE Outsourcing is often referred to as subcontracting (see definition 3.61, "subcontractor").

**3.35****packaging materials****3.35.1****primary packaging materials**

those packaging materials used in pharmaceutical packaging which will contain, seal or be used for dose application and will have direct contact with the medicinal product

NOTE 1 Primary packaging materials are, e.g. glass, rubber, plastics, aluminium containers/components, films, foils, laminate containers/components. They may be combinations of different materials/components (e.g. syringes, aerosol valves).

NOTE 2 Primary packaging materials with limited contact, e.g. pipettes, syringes are included within the scope of this International Standard.

NOTE 3 Primary packaging materials may be directly printed or decorated.

**3.35.2****secondary packaging materials**

the term "secondary packaging materials" is used for non-contact packaging materials and generally includes printed or unprinted cartons, labels, leaflets or inserts (or outserts), over-wraps, transit containers such as folding boxes

**3.36****process aids**

material used to facilitate process realization

NOTE The material is not included in the product specification and can be removed at or before the final processing stage.

EXAMPLES Mould release agents, compressed air, rolling lubricants.