

This is a preview of "ISO 22742:2010". [Click here to purchase the full version from the ANSI store.](#)

Second edition  
2010-12-15

---

---

## **Packaging — Linear bar code and two-dimensional symbols for product packaging**

*Emballages — Code-barres linéaire et symboles bidimensionnels pour emballage de produits*



Reference number  
ISO 22742:2010(E)

© ISO 2010

This is a preview of "ISO 22742:2010". [Click here to purchase the full version from the ANSI store.](#)

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 22742:2010". [Click here to purchase the full version from the ANSI store.](#)

## Contents

Page

Foreword .....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references.....	2
3 Terms and definitions .....	2
4 Data content and requirements .....	7
4.1 General .....	7
4.2 Rules for encoding of mandatory and optional data elements in machine-readable symbols and human-readable information.....	9
4.2.1 General rules.....	9
4.2.2 Rules for mandatory data elements .....	9
4.2.3 Rules for additional data elements.....	9
4.2.4 Rules for data elements not specified in this International Standard .....	10
4.3 Basic data elements .....	11
4.3.1 General .....	11
4.3.2 Item identification.....	12
4.3.3 Quantity .....	13
4.3.4 Traceability identification .....	14
4.4 Additional data elements.....	16
4.4.1 General .....	16
4.4.2 Supplier identification.....	16
4.4.3 Country of origin .....	17
4.4.4 Date elements .....	18
4.4.5 Others not specified in this International Standard.....	20
4.5 Data representation.....	20
4.5.1 General formatting .....	20
4.5.2 General formatting for machine-readable symbols .....	20
4.6 Data carriers.....	24
4.6.1 Data carrier selection .....	24
4.6.2 General symbology requirements .....	24
4.6.3 Linear symbols used on product packaging .....	24
4.6.4 Two-dimensional (2D) symbols used on product packages.....	27
4.6.5 Data carrier/symbology identifiers .....	28
4.7 Label size and layout .....	28
4.7.1 Label size .....	28
4.7.2 Label layout.....	28
4.7.3 Examples of label layout.....	28
4.7.4 Label location .....	31
Annex A (informative) Direct printing of linear bar code symbols on corrugated fibreboard .....	33
Annex B (informative) Organizations relevant to this International Standard.....	44
Bibliography.....	46

## 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 22742 was prepared by Technical Committee ISO/TC 122, *Packaging*.

This second edition cancels and replaces the first edition (ISO 22742:2005).

This is a preview of "ISO 22742:2010". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

Bar code marked product package labels are in widespread use in global industries. A number of different standards exist, each designed to meet the requirements of that specific industry sector. For effective and economic use within and between industry sectors, one common multi-industry standard is a necessity.

A bar code marked product package label is designed to facilitate the automation of inventory, distribution, repair and point of purchase operations. The bar code information on the product package label can be used as a key to access the appropriate database, which contains detailed information about the product including information transmitted via electronic data interchange (EDI). In addition, a product package label can contain other information as agreed between the trading partners.

Two-dimensional symbols can be included to assist moving greater amounts of product data from sender to recipient.

Whereas ISO 15394 is intended to support the transportation function within the supply chain (e.g. from the shipping dock, through the transportation processes, and to the receiving dock), this International Standard is intended to support the logistic functions preceding and following transportation. At the origin point, this International Standard is designed for use from manufacture to storage, to picking and packing, to delivery to the shipping dock, and all associated inventory processes. At the destination point, it is designed for use from the receiving dock to order checking, to storage, to consumption, and to all associated inventory processes and reverse logistic processes.

This International Standard is based on ANS MH10.8.6, GS1 General Specifications, and standards on product packaging (e.g. IEC 62090).