

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 0950 : 2008

(JEITA)

The marking for presence of
the specific chemical substances
for electrical and electronic
equipment

ICS 29.020; 71.040

Reference number : JIS C 0950 : 2008 (E)



Documents

Document Sharing Hub

Date of Establishment: 2005-12-20

Date of Revision: 2008-01-20

Date of Public Notice in Official Gazette: 2008-01-21

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Electricity Technology/
Electronics Technology

JIS C 0950 : 2008, First English edition published in 2008-03

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2008

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 the publisher.

Printed in Japan

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Marking for presence of specific chemical substances	2
4.1 Marking for presence by using content mark	2
4.2 Marking of presence condition according to presence place	4
5 Object of marking for presence	6
6 Method of marking	6
6.1 Marking on equipment body	6
6.2 Marking on package container of equipment	7
6.3 Marking on catalogues related to equipment	7
6.4 Marking of presence condition on website	7
Annex A (normative) Conception on specific chemical substance and calculation of percentage content	8
Annex B (normative) Exemption from content mark	10
Annex C (informative) Measuring method of substance to be calculated	13
Annex D (normative) Marking for presence of the specific chemical substances for electrical and electronic equipment according to former standard	14
Annex DA (normative) Conception on the specific chemical substances and calculation of their percentage content	21
Annex DB (normative) Matters exempted from content marking	23
Annex DC (informative) Measuring method of substances to be calculated	25
Annex DD (informative) Marking of green mark	26

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Electronics and Information Technology Industries Association (JEITA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS C 0950**:2005 is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

The marking for presence of the specific chemical substances for electrical and electronic equipment

Introduction

This Japanese Industrial Standard intends further spread of adequately controlled electrical and electronic equipment, by standardizing the marking for presence of the specific chemical substances contained in electrical and electronic equipment, so that improvement of management of the specific chemical substances in each step of the supply chain and life cycle by the enterprise is promoted, together with well understanding of general consumers, consequently effective utilization of resources and reduction of environmental load are achieved.

1 Scope

This Standard specifies the marking for presence of the specific chemical substances for electrical and electronic equipment.

NOTE 1 In this Standard, the electrical and electronic equipment means such equipment that offer of information for presence of the specific chemical substances is determined based on the Law for Promotion of Effective Utilization of Resources (Law No. 48, 1991) (hereafter referred to as "PEUR Law"). However, application of this Standard to other electrical and electronic equipment is not restricted.

NOTE 2 Provisions of Annex D of this Standard are based on the former standard (**JIS C 0950:2005**) and shall be effective till July 31st, 2008. Provisions of the text and Annex A to Annex C of this Standard shall not be used in combination with provisions of Annex D in any part.

2 Normative references

The following standard contains provisions which, through reference in this text, constitutes provisions of this Standard. Only the edition of the indicated year of the standard shall apply to the provision of this Standard, and the revision and amendment made thereafter shall not apply.

JIS Z 8102:2001 *Names of non-luminous object colours*

3 Terms and definitions

For the purposes of this Standard, the following definitions apply.

3.1 marking for presence

marking of content mark and presence condition of presence places when the percentage content of the substance to be calculated exceeds the reference value of percentage content in electrical and electronic equipment

NOTE 1 Conception on the percentage content is specified in Annex A together with the reference value of percentage content.

NOTE 2 The test method for the case where measurements are necessary for the calculation of percentage content is stated in Annex C for reference.

3.2 equipment body

basic part of an electrical and electronic equipment that is indispensable to exert its function

3.3 package container

a box which has a function to protect the equipment when electrical and electronic equipment is transported and stored

NOTE : In general, it means an external box.

3.4 catalogue etc.

catalogue, instruction manual and so on which utilize printed matters and electronic information as a medium

3.5 homogeneous substance or homogeneous material

substance under such state that mechanical separation is impossible or material under such state that mechanical separation is impossible

Mechanical separation is impossible herein means that the separation can not be done by such mechanical operations as unscrewing, cutting, crushing, shattering, grinding, etc.

3.6 substance to be calculated

substance subjected to the calculation of percentage content among substances contained in homogeneous substance or homogeneous material

NOTE : Substances to be calculated shall be specified in table A.1.

3.7 unit

a component which constitutes an equipment body

NOTE : Gathering of plural units constitutes a product (an equipment body).

3.8 URL (Uniform Resource Locator)

an indication which specifies the website on the computer connected to the internet

3.9 website

a place where the information in which letter, voice, image and so on are mixed is offered to the user of internet

NOTE : This is stored on the computer connected to the internet and specified by URL.

4 Marking for presence of specific chemical substances

4.1 Marking for presence by using content mark

For the marking for presence of specific chemical substances by using the content mark, there is a case where the content mark only is used as specified in 4.1.1,

and the case where the content mark with chemical substance symbols is used as specified in 4.1.2. However, when the specific chemical substance falls into the exemption from content mark specified in Annex B, the content mark shall not be marked.

4.1.1 When using content mark only

When marking the content mark only, it shall be as given in figure 1. The size and colour of content mark shall be as follows.

- The size of content mark shall be a size firmly confirmed corresponding to the size of an object to be marked. Provided that the width shall be not less than 15 mm.
- The colour of content mark shall be yellow red specified in table 1 of **JIS Z 8102** (representative colour code is 2.5YR 5.5/13) and care shall be taken for distinction from the background colour. If it is impossible to use the specified colour due to limit on printing or the like, an easily distinguishable colour (complementary colour of background or the like) may be used, but use of a colour of greenish shall be avoided.

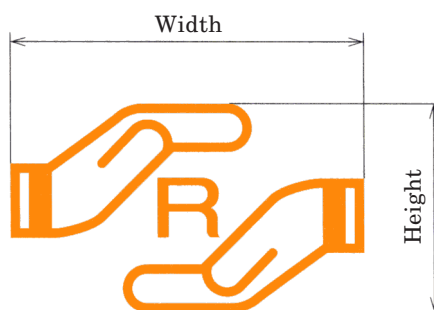


Figure 1 Marking of content mark only

4.1.2 When using content mark with chemical substance symbols

When using the content mark with chemical substance symbols, the marking shall be made by arranging the content mark of figure 1 above the chemical substance symbols as shown in figure 2. If the chemical substance symbols can not be arranged below the content mark, the content mark may be arranged on the left with the chemical substance symbols on the right.



Figure 2 Marking of content mark with chemical substance symbols

The notation of chemical substance symbols shall be as follows.

- a) The chemical substance symbols to be used for marking for presence shall be as given in table A.1.
- b) It is preferable to use Gothic style for letters. The height of chemical substance symbols shall be not less than one sixth of the height of content mark, and the size shall be large enough for easy identification.

The colour of chemical substance symbols shall be the same colour with that of the content mark.

- c) When the percentage content of plural chemical substances exceed the respective reference values of percentage content, chemical substance symbols shall be described together. In this case, “,” is used between respective symbols for identification.

Example : When one chemical substance is subjected to marking for presence: XX
When plural chemical substances are subjected to marking for presence: XX, YY

NOTE : “XX” and “YY” are the chemical substance symbols specified in table A.1.

4.2 Marking of presence condition according to presence place

The marking of presence condition according to the presence place shall be in accordance with 4.2.1 or 4.2.2. The presence condition herein in each chemical substance symbol shall be described by using tables and the like of the classification divided roughly (coarse classification) into the unit and the like (cabinet, mounting substrate, remote controller, etc.).

In these tables and the like, the number of this Standard with the indication of the year, “JIS C 0950 :2008” shall be described.

4.2.1 Marking when exceeding reference value of percentage content

When the content exceeds the reference value of percentage content specified in table A.1, the marking for presence shall be carried out. The description example of the presence condition is as shown in the example. In the case where the content exceeds the reference value of percentage content and the exemption is present, the exemption shall also be described.

When the content other than exemption does not exceed the reference value of percentage content, the description shall be in accordance with 4.2.2.

- a) When the content exceeds the reference value of percentage content, the description shall be “numerical value of percentage content (wt%)”, “exceeding 0.1 wt%” or “exceeding 0.01 wt%”.
- b) When corresponding to the exemption specified in Annex B, “exemption” shall be entered.
- c) When the content does not exceed the reference value of percentage content, the symbol “○” or the wording “not exceeding the reference value of percentage content” may be used.

Example : Description example of marking of presence condition when the content exceeds the reference value of percentage content

Equipment name: Television receiver Type designation: □ □ -AAA

Unit	Chemical substance symbol					
	Pb	Hg	Cd	Cr (VI)	PBB	PBDE
Mounting substrate	exceeding 0.1 wt%	○	○	○	○	○
Cabinet	○	○	exceeding 0.01 wt%	○	○	exceeding 0.1 wt%
Cathode-ray tube	Exemption	○	○	○	○	○
Speaker	○	○	○	exceeding 0.1 wt%	○	○
Accessories such as remote controller	Exemption	○	○	○	○	○
NOTE 1 The “exceeding 0.1 wt%” and “exceeding 0.01 wt%” indicate that the percentage content of the substance to be calculated is exceeding the reference value of percentage content. NOTE 2 The “○” indicates that the percentage content of the substance to be calculated is not exceeding the reference value of percentage content. NOTE 3 The “exemption” indicates that the substance to be calculated corresponds to the exemption from content mark. JIS C 0950 : 2008						

4.2.2 Marking when content other than exemption does not exceed reference value of percentage content

When a part of substances to be calculated correspond to the exemption from content mark and the percentage content of other substances to be calculated are not exceeding the reference value of percentage content, the marking for presence shall be carried out.

For the description of this case, there are the way using a table and the way using a sentence, and they shall be as follows.

a) **When using a table** (see example 1)

- 1) When corresponding to the exemption specified in Annex B, “exemption” shall be entered.
- 2) When the content does not exceed the reference value of percentage content, the symbol “○” or the wording “not exceeding the reference value of percentage content” may be used.

Example 1 Description example using a table for the case when a part of substances to be calculated correspond to the exemption from content mark and the percentage content of other substances to be calculated are not exceeding the reference value of percentage content

Equipment name: Television receiver Type designation: □ □ -BBB

Unit	Chemical substance symbol					
	Pb	Hg	Cd	Cr (VI)	PBB	PBDE
Mounting substrate	○	○	○	○	○	○
Cabinet	○	○	○	○	○	○
Cathode-ray tube	Exemption	○	○	○	○	○
Speaker	○	○	○	○	○	○
Accessories such as remote controller	Exemption	○	○	○	○	○
NOTE 1 The “○” indicates that the percentage content of substance to be calculated is not exceeding the reference value of percentage content.						
NOTE 2 The “exemption” indicates that the substance to be calculated corresponds the exemption from content mark.						
JIS C 0950 : 2008						

b) When using a sentence (see example 2)

- 1) When corresponding to the exemption specified in Annex B, “exemption” shall be entered.

Example 2 Description example using a sentence for the case when a part of substances to be calculated correspond to the exemption from content mark and the percentage content of other substances to be calculated are not exceeding the reference value of percentage content

“Only Pb contained in the cathode-ray tube of “Equipment name: Television receiver Type designation: □ □ -BBB” corresponds to the exemption from content mark (**JIS C 0950 : 2008**).”

5 Object of marking for presence

For the marking for presence by the content mark specified in 4.1, the equipment body, package container and catalogue etc. of equipment shall all be the objects. The marking of presence condition according to the presence place specified in 4.2, shall be announced on the website.

When the use of website is impossible, the offering of information is done by using other media such as FAX, CD-ROM, etc.

6 Method of marking

6.1 Marking on equipment body

In the marking for presence, the marking on equipment body shall be as follows according to 4.1.