
Plinske jeklenke - Označevanje jeklenk (razen UNP) - 2. del: Opozorilne nalepke

Transportable gas cylinders - Cylinder identification (excluding LPG) - Part 2:
Precautionary labels

Ortsbewegliche Gasflaschen - Gasflaschen-Kennzeichnung (ausgenommen LPG) - Teil
2: Gefahrzettel

Bouteilles a gaz transportables - Identification de la bouteille a gaz (a l'exclusion du GPL)
- Partie 2: Etiquettes informatives

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EUROPEAN STANDARD

EN 1089-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1996

ICS 23.020.30

Descriptors: gas cylinders, designation, labels, information, dimensions, design, hazards, graphic symbols

English version

**Transportable gas cylinders - Cylinder
identification (excluding LPG) - Part 2:
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l'exclusion du GPL) - Partie 2: Etiquettes
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Teil 2: Gefahrzettel

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 23 "Transportable gas cylinders", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 1997, and conflicting national standards shall be withdrawn at the latest by April 1997.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive (s).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

This European Standard is a three part standard, belonging to a series of standards specifying gas cylinder identification requirements:

Part 1: Stampmarking;

Part 2: Precautionary labels;

Part 3: Colour coding.

The purpose of using precautionary labels on gas cylinders is to facilitate the identification of each cylinder and its content and to warn of the principal hazards associated with the said contents. Such labels can also serve to give other essential information such as the name and chemical formula of the gas or gas mixture and supplementary instructions on precautionary measures.

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1 Scope

This European Standard specifies the design, content, i.e. hazard symbols and text, and application of precautionary labels intended for use on individual gas cylinders containing single gases or gas mixtures.

Labels for bundles of cylinders and for LPG cylinders are not covered by this standard.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publication apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

ISO 448: 1981 Gas cylinders for industrial use - Marking for identification of content.

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3 Design and content of precautionary labels

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3.1 General

Precautionary labels shall be designed, attached and maintained so that they are clearly visible and legible for as long as the cylinders remain in the same gas service.

Precautionary labels shall consist of two components:

- a) a diamond-shaped part or parts, i.e. a primary hazard diamond and, in cases where two or three kinds of hazard require identification, one or two subsidiary hazard diamond (s);
- b) a panel.

Where two or three hazard diamonds are necessary, the subsidiary hazard diamond (s) shall be placed overlapped and to the right of the primary hazard diamond (see figures 1 and 2). In all cases, the symbols of the hazard diamond (s) shall remain unobscured.

The diamonds and panels may be manufactured separately and assembled on the gas cylinder.

Figures 1 to 4 show examples of arrangements of the diamond (s) and panel, other arrangements of the diamond (s) are permissible, (e.g. it may be above or beneath the panel).

3.2 Size and shape

3.2.1 Diamond

The size and shape of the diamonds are illustrated in figures 1 to 4. Recommended lengths "a" of the sides of the diamond are specified in table 1. Other lengths may be used provided that the hazard symbol is well visible in relation to the size of the cylinder.

Each diamond shall cover at least one-tenth of the surface area of the label.

Table 1: Size of diamond

Dimensions in mm	
Cylinder outside diameter D	Length of side of diamond a
D < 75	≥ 10
75 ≤ D < 180	≥ 15
D ≥ 180	≥ 25

3.2.2 Panel

The size and shape of panels are optional (see figures 1 to 4).

3.3 Material

The labels shall be made of a material which is durable under foreseeable conditions of transportation, storage and use.

3.4 Colour

3.4.1 Diamond

The background colour of the diamonds shall be in accordance with table 2.

3.4.2 Panel

The colour and/or the presentation for the panels shall be such that there is a contrast with the colour of the diamond.

3.5 Content

3.5.1 Diamond

The primary hazard diamond shall indicate the numeral 2, in accordance with the classification system for dangerous goods established by the United Nations.

If more than one hazard diamond is required, the numeral shall only be shown on the diamond for the primary hazard.

In addition, the diamond shall indicate the appropriate hazard symbol specified in table 2 and may indicate a statement (the name) of the hazard.

The size of the lettering and symbol shall be such that they are easily identifiable and clearly legible in proportion to the size of the diamond.

The symbols and letters shall normally be printed in black. White symbols and letters are allowed on red backgrounds and green backgrounds.

The diamond for the hazard "corrosive" shall have the upper half white with black symbols and the lower half black with white lettering (e.e. the optional statement "corrosive gas").

Each diamond shall have a line inside its edge, of the same colour as the symbol.

3.5.2 Panel

The panel shall indicate additional essential information such as:

- for a single gas, the proper name and chemical formula in accordance with ISO 448:1981;
- for a gas mixture, the proper names and chemical formulae of the components may be substituted by either a generic term or a trade name provided that the formula of all the gases influencing the hazard properties of the mixture are clearly identified either on the label or elsewhere on the cylinder.
- supplementary instructions or precautions to be observed in the transportation, storage and use of the cylinder and its content (e.g. recognised risk and safety phrases).
- the name and contact reference of the company to be contacted if needed.
- additional optional information such as filling weight may be included provided that it does not cause confusion.

4 Application of precautionary labels

4.1 The supplier shall ensure that the attaching, removal, or replacement of the label is performed in accordance with the cylinder content.