ICS 71.100.20 SLOVENSKÁ TECHNICKÁ NORMA September 2022

STN	**Fľaše na plyny Plyny a zmesi plynov Stanovenie leptavosti pri výbere výstupu z ventilov tlakových fliaš (ISO 13338: 2022)**	**STN EN ISO 13338 07 8615**

Gas cylinders - Gases and gas mixtures - Determination of corrosiveness for the selection of cylinder valve outlet (ISO 13338:2022)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/22

Obsahuje: EN ISO 13338:2022, ISO 13338:2022

Oznámením tejto normy sa ruší
STN EN ISO 13338 (07 8615) z apríla 2021

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 13338

June 2022

ICS 71.100.20; 23.020.35 Supersedes EN ISO 13338:2020

English Version

Gas cylinders - Gases and gas mixtures - Determination of corrosiveness for the selection of cylinder valve outlet (ISO 13338:2022)

Bouteilles à gaz - Gaz et mélanges de gaz - Détermination de la corrosivité pour le choix des raccords de sortie de robinets (ISO 13338:2022)

Gasflaschen - Gase und Gasgemische - Bestimmung der Ätzwirkung auf lebendes Gewebe zur Auswahl von Ventilausgängen (ISO 13338:2022)

This European Standard was approved by CEN on 25 May 2022.

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

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Ref. No. EN ISO 13338:2022 E

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European foreword

This document (EN ISO 13338:2022) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with 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of an identical text or by endorsement, at the latest by December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.

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 13338:2020.

Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 13338:2022 has been approved by CEN as EN ISO 13338:2022 without any modification.

INTERNATIONAL STANDARD

ISO 13338

Third edition
2022-05

Gas cylinders — Gases and gas mixtures — Determination of corrosiveness for the selection of cylinder valve outlet

Bouteilles à gaz — Gaz et mélanges de gaz — Détermination de la corrosivité pour le choix des raccords de sortie de robinets

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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.

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).

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

For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 23, *Transportable gas cylinders*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 13338:2017), which has been technically revised. The main changes are as follows:

— the corrosiveness of gases and gases mixtures has been clarified;

— the definition of FTSC codes for corrosiveness gases and gas mixtures has been clarified in Clause 4;

— minor editorial changes have been made in Table 1.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

ISO 5145 specifies the dimensions of different valve outlets for different compatible gas groups. These compatible gas groups are determined according to practical criteria defined in ISO 14456.

These criteria are based on certain physical, chemical, toxic and corrosive properties of the gases. In particular, the gas corrosiveness is considered in this document.

The aim of this document is to assign a classification category for each gas that takes into account the tissue corrosiveness of the gas for skin, eyes and the respiratory tract as well as the potential for a corrosiveness related acid/base chemical reaction.

For gas mixtures containing corrosive components, a calculation method based on the additivity method of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)[3] is proposed.

However, for gas mixtures containing corrosive gas components, some valve outlets standards require the use of the corrosive category regardless of the corrosive gas concentration.

INTERNATIONAL STANDARD **ISO 13338:2022(E)**

Gas cylinders — Gases and gas mixtures — Determination of corrosiveness for the selection of cylinder valve outlet

1 Scope

This document specifies the following, in order to determine the corrosiveness of gases and gas mixtures so that a suitable outlet connection can be assigned to each of them:

— for pure gases and some liquids, a complete list indicating their corrosiveness;

— for gas mixtures, a calculation method, in the absence of experimental data, relating to the corrosiveness of each of their components.

2 Normative references

There are no normative references in this document.