International Standard

ISO 10286

Gas cylinders — Vocabulary

Bouteilles à gaz — Vocabulaire

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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 document 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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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*, 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 sixth edition cancels and replaces the fifth edition (ISO 10286:2021), which has been technically revised.

The main changes are as follows:

— introduction of several new terms and definitions throughout Clause 3;

— correction of definitions throughout Clause 3;

— removal of some terms and definitions in Clause 3;

— addition to Annex B of both the terms introduced in Clause 3 and of additional terms where no definition were given but the correct translation into French and German are given.

In addition to text written in the official ISO languages (English, French), this document gives text in German. This text is published under the responsibility of the Member Body for Germany (DIN) and is given for information only. Only the text given in the official languages can be considered as ISO text.

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

The terms and definitions in this document are given in the following layout:

preferred term(s)	in bold typeface
admitted term(s)	or synonyms, in normal typeface
DEPRECATED: deprecated term	deprecated term(s), in normal typeface, with the designation "DEPRECATED":
definition	the definition, where available, in normal typeface
Note 1 to entry:	notes to entry, cross-references and examples.
Figures/non-verbal representations	

The terms in this document are sorted in systematic order as far as possible. Further guidance on terminological presentation can be found in ISO 10241-1.

The definitions support the understanding of the terms used in this document. They have been prepared with due regard to possible uses in different fields related to gas cylinders. However, it is possible that they will require adaption for particular uses.

Within this document, the term "ADR" is for simplification used as to also include similar regulations such as RID and ADN, where appropriate.

Table 1 shows a hierarchical overview of pressure receptacles according to the UN Model Regulations.

Annex A shows the different pressures for pressure receptacles in relation to each other.

Annex B shows a table giving both the terms of clause 3 as well as terms for additional terminology including the translation to the other two languages of this three-language document.

Annex C shows figures related to the additional terminology given in Annex B.

Terms given in square brackets are not within the scope of this document. They are shown for information only.

Unless noted by exception, the use of the word "cylinder" in this document refers to cylinders as well as tubes and pressure drums.

In International Standards, weight is equivalent to a force, expressed in Newton. However, in common parlance (as used in terms defined in this document), the word "weight" continues to be used to mean "mass", even though this practice is deprecated (ISO 80000-4).

Table 1 — Overview of terms for pressure receptacles and related containers which are not defined as pressure receptacles

Battery-vehicle[d]	Small receptacle containing gas (gas cartridge) and aerosol dispenser	MEGC (multiple-element gas container)	pressure receptacle							[Tank[a]]
			Cylinder	Tube	Pressure drum	Bundle of cylinders	Salvage pressure receptacle	[Closed cryogenic receptacle[b]]	[Metal-hydride storage system[c]]	

[a] In scope of CEN/TC 296 and CEN/TC 286.

[b] In scope of ISO/TC 220.

[c] In scope of ISO/TC 197.

[d] This designation is used in the ADR.

NOTE Within this document, for simplification, the use of the term “ADR” also includes similar regulations such as RID and ADN, where appropriate.

Gas cylinders — Vocabulary

1 Scope

This document defines terms for the manufacture and use of gas cylinders and other pressure receptacles and their fittings.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1 Terms related to pressure receptacles

3.1.1 All pressure receptacles

3.1.1.1
pressure receptacle
DEPRECATED: receptacle
transportable receptacle intended for holding substances under pressure including its closure(s) and other service equipment

Note 1 to entry: It is a collective term that includes cylinders, tubes, pressure drums, closed cryogenic receptacles, metal-hydride storage system, bundle of cylinders and salvage pressure receptacles.

EXAMPLE Seamless gas cylinder: