BS ISO 6472:2024

BSI Standards Publication

Rubber compounding ingredients — Abbreviated terms

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National foreword

This British Standard is the UK implementation of ISO 6472:2024. It supersedes BS ISO 6472:2017, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/10, Terminology for rubbers and plastics.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Rubber compounding ingredients — Abbreviated terms

Ingrédients de mélange du caoutchouc — Termes abrégés

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Foreword

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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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This document was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This sixth edition cancels and replaces the fifth edition (ISO 6472:2017), which has been technically revised.

The main changes are as follows:

— new ingredients and their abbreviations have been added;

— di-tert-butyl peroxide (DTBP) has been removed from Table 1 due to its high risk of ignition in rubber applications.

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Rubber compounding ingredients — Abbreviated terms

1 Scope

This document establishes unambiguous abbreviated terms for commonly used rubber compounding ingredients of known, specific chemical composition.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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/

4 Notation conventions used in this document

4.1 The abbreviated terms are derived from common usage in industry and commerce rather than from any systematic nomenclature. The list is not intended to conflict with, but rather to act as a supplement to, existing trade names and trademarks.

4.2 When abbreviated terms first appear in a text, they shall be enclosed in parentheses and shall be preceded by the chemical name written in full.

4.3 The list does not purport to be comprehensive, and abbreviated terms for other compounding ingredients will be added in future revisions of this document.

4.4 International Union of Pure and Applied Chemistry (IUPAC) nomenclature is provided where this is available, in addition to the commonly used chemical name or names. In some instances, alternative commonly used chemical names are given where they are recognized. For those materials whose chemical formula cannot be specified, such as reaction products or polymerized products, the identification of IUPAC is “not possible”. Chemical Abstracts Service Registry Number (CAS RN) is also provided unless “not available”.

4.5 Unlike ISO 1043-3, which uses the letter F for phosphates, this document uses the letter P, because P is used universally to designate phosphates and other phosphorous compounds and the letter F is used universally to designate fluorine and its compounds; this usage would thus minimize the confusion among those using this document.

5 Accelerators, co-agents and vulcanizing agents

See Table 1.

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Table 1 — Accelerators, co-agents and vulcanizing agents

Number	Abbreviated term	Common chemical name, IUPAC name and CAS RN (where available)
1	AB	ammonium benzoate IUPAC: ammonium benzoate CAS RN: 1863–63–4
2	BA	butyraldehyde-aniline condensate IUPAC: not possible CAS RN: 68411–20–1
3	BiDMC	bismuth dimethyldithiocarbamate IUPAC: bismuth tris(dimethyldithiocarbamate) CAS RN: 21260–46–8
4	BPEH	*OO-tert*-Butyl *O*-(2-ethylhexyl) peroxycarbonate IUPAC:*tert*-butoxy 2-ethylhexyl carbonate CAS RN:34443-12-4
5	BPO	benzoyl peroxide IUPAC: dibenzoyl peroxide CAS RN: 94–36–0
6	BPV	*n*-butyl bis(4,4-*tert*-butylperoxy)valerate; 3,3-bis(*tert*-butylperoxy)butane carboxylic acid *n*-butyl ester IUPAC: butyl 4,4-bis(*tert*-butyldioxy)valerate CAS RN: 995–33–5
7	BQD	*p*-benzoquinone dioxime IUPAC: *p*-benzoquinone dioxime CAS RN: 105–11–3
8	CBS	*N*-cyclohexylbenzothiazole-2-sulfenamide; *N*-cyclohexylbenzothiazyl sulfenamide IUPAC: *N*-cyclohexyl-1,3-benzothiazole-2-sulfenamide CAS RN: 95–33–0
9	CdDEC	cadmium diethyldithiocarbamate IUPAC: cadmium bis(diethyldithiocarbamate) CAS RN: 14239–68–0
10	CdDMC	cadmium dimethyldithiocarbamate IUPAC: cadmium bis(dimethyldithiocarbamate) CAS RN: 14949–60–1
11	CuDMC	copper dimethyldithiocarbamate IUPAC: copper bis(dimethyldithiocarbamate) CAS RN: 137–29–1
12	CLD	caprolactam disulfide IUPAC: 1,1'-dithiobis(hexahydro-2*H*-azepin-2-one) CAS RN: 23847–08–7
13	CMBT	dicyclohexylammonium 1,3-benzothiazole-2-thiolate IUPAC: dicyclohexylammonium 1,3-benzothiazole-2-thiolate CAS RN: 37437–20–0
14	DBA	dibenzylamine IUPAC: dibenzylamine CAS RN: 103–49–1
15	DBBS	dibenzyl-2-benzothiazole sulfenamide IUPAC: *N'N*-dibenzyl-2-benzothiazol sulfenamide CAS RN: 180591-20-2
16	DBMEB	bis(1-*tert*-butylperoxy-1-methylethyl)benzene IUPAC: 1,4-Bis(2-*tert*-butylperoxypropan-2-yl)benzene CAS RN: 25155-25-3

NOTE CAS Registry Number® is a trademark of the American Chemical Society (ACS). This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named. Equivalent products may be used if they can be shown to lead to the same results.

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