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Responsible committee: PRI/10 Terminology for rubbers and plastics

Interested committees:

Title: Draft BS ISO 6472 Rubber compounding ingredients - Abbreviated terms

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Introduction

This draft standard is based on international discussions in which the UK has taken an active part. Your comments on this draft are invited and will assist in the preparation of the consequent standard. Comments submitted will be reviewed by the relevant BSI committee before sending the consensus UK vote and comments to the international secretariat, which will then decide appropriate action on the draft and the comments received.

If the international standard is approved, it is possible the text will be published as an identical British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	(7)
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/ Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

DRAFT INTERNATIONAL STANDARD

ISO/DIS 6472

ISO/TC 45

Secretariat: **DSM**

Voting begins on:
2016-04-21

Voting terminates on:
2016-07-20

Rubber compounding ingredients — Abbreviated terms

Ingrédients de mélange du caoutchouc — Termes abrégés

ICS: 01.040.83; 83.040.20

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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. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*.

This fifth edition cancels and replaces the fourth edition (ISO 6472:2010), which has been technically revised including the following changes:

- the word 'symbols' has been removed from the title and the scope as there are no symbols being introduced in the standard;
- new ingredients and their abbreviations have been added;
- *N,N'*-ditolyl-p-phenylenediamine (PTPD) has been removed from [Table 5](#) due to its hazardous properties.

Rubber compounding ingredients — Abbreviated terms

1 Scope

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

2 Notation conventions used in this International Standard

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.

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.

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

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. Where available, a Chemical Abstracts Service Registry Number (CAS RN) is also provided.

Unlike ISO 1043-3, which uses the letter F for phosphates, this International Standard 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 International Standard.

3 Accelerators, co-agents and vulcanizing agents

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: same 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	BPO	benzoyl peroxide IUPAC: dibenzoyl peroxide CAS RN: 94-36-0
5	BPV	<i>n</i> -butyl bis(4,4- <i>tert</i> -butylperoxy)valerate; 3,3-bis(<i>tert</i> -butylperoxy)butane carboxylic acid <i>n</i> -butyl ester IUPAC: butyl 4,4-bis(<i>tert</i> -butyldioxy)valerate CAS RN: 995-33-5

Table 1 (continued)

Number	Abbreviated term	Common chemical name, IUPAC name and CAS RN (where available)
6	BQD	<i>p</i> -benzoquinone dioxime IUPAC: same CAS RN: 105-11-3
7	CBS	<i>N</i> -cyclohexylbenzothiazole-2-sulfenamide; <i>N</i> -cyclohexylbenzothiazyl sulfenamide IUPAC: <i>N</i> -cyclohexyl-1,3-benzothiazole-2-sulfenamide CAS RN: 95-33-0
8	CdDEC	cadmium diethyldithiocarbamate IUPAC: cadmium bis(diethyldithiocarbamate) CAS RN: 14239-68-0
9	CdDMC	cadmium dimethyldithiocarbamate IUPAC: cadmium bis(dimethyldithiocarbamate) CAS RN: 14949-60-1
10	CuDMC	copper dimethyldithiocarbamate IUPAC: copper bis(dimethyldithiocarbamate) CAS RN: 137-29-1
11	CLD	caprolactam disulfide IUPAC: 1,1'-dithiobis(hexahydro-2 <i>H</i> -azepin-2-one) CAS RN: 23847-08-7
12	CMBT	dicyclohexylammonium 1,3-benzothiazole-2-thiolate IUPAC: same CAS RN: 37437-20-0
13	DBA	dibenzylamine IUPAC: same CAS RN: 103-49-1
14	DBPC	1,1-bis(<i>tert</i> -butylperoxy)-3,5,5-trimethylcyclohexane; 1,3,3-trimethyl-5,5-di- <i>tert</i> -butylperoxycyclohexane IUPAC: di- <i>tert</i> -butyl 3,3,5-trimethylcyclohexylidene diperoxide CAS RN: 6731-36-8
15	DBQD	<i>p,p'</i> -dibenzoyl- <i>p</i> -benzoquinone dioxime; quinone dioxime dibenzoate IUPAC: <i>p</i> -benzoquinone bis(<i>O</i> -benzoyloxime) CAS RN: 120-52-5
16	DBTU	1,3-dibutylthiourea IUPAC: 1,3-dibutyl-2-thiourea CAS RN: 109-46-6
17	DBXD	dibutylxanthogen disulfide IUPAC: <i>O,O</i> -dibutyl dithiobis(thioformate) CAS RN: 105-77-1
18	DCBP	2,4-dichlorobenzoyl peroxide IUPAC: bis(2,4-dichlorobenzoyl) peroxide CAS RN: 133-14-2
19	DCBS	<i>N,N</i> -dicyclohexylbenzothiazole-2-sulfenamide; <i>N,N</i> -dicyclohexylbenzothiazyl sulfenamide IUPAC: <i>N,N</i> -cyclohexyl-1,3-benzothiazole-2-sulfenamide CAS RN: 4979-32-2
20	DCP	dicumyl peroxide IUPAC: bis(1-methyl-1-phenylethyl) peroxide CAS RN: 80-43-3
21	DETU	1,3-diethylthiourea IUPAC: 1,3-diethyl-2-thiourea CAS RN: 105-55-5