International Standard 6472

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Rubber compounding ingredients — Abbreviations

Ingrédients de mélange du caoutchouc — Abréviations

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Rubber compounding ingredients — Abbreviations

1 Scope and field of application

This International Standard establishes unambiguous abbreviations for commonly used rubber compounding ingredients other than polymers. The names are a consensus of world opinion.

These abbreviations 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 tradenames and trademarks.

In technical papers or presentations, the name of the ingredient should be used, if possible. The symbols should follow the chemical name for use in later references.

The list does not purport to be comprehensive, and abbreviations for other compounding ingredients will be added in future revisions.

NOTE — This International Standard recognizes that two systems of abbreviation for some rubber chemicals are in widespread use. For example in the system favoured by North America and some other countries, the dithiocarbamate group is denoted by the symbol "DC", whereas in the system prevailing in many European countries this group is denoted by the single letter "C", with "D" being used to signify dialkyl or diaryl substitution. Abbreviations derived from the latter system are given as alternatives in the list below. Where there are two, the first designates the North American; the second the European.

2 Accelerators

BiMDC; BiDMC	bismuth dimethyldithiocarbamate
CBS	*N*-cyclohexylbenzothiazole-2-sulfenamide; *N*-cyclohexylbenzothiazylsulfenamide
CdEDC; CdDEC	cadmium diethyldithiocarbamate
CdMDC; CdDMC	cadmium dimethyldithiocarbamate
CuMDC; CuDMC	copper dimethyldithiocarbamate
DBA	dibenzylamine
DBTU	1,3-dibutylthiourea
DETU	1,3-diethylthiourea
DOTG	di-*o*-tolylguanidine
DPG	diphenylguanidine
DPTH	dipentamethylenethiuram hexasulfide
DTDM	dithiodimorpholine
ETU	ethylene thiourea
HMT	hexamethylenetetramine
LMDC; LDMC	lead dimethyldithiocarbamate
MBS	2-morpholinothiobenzothiazole; *N*-oxydiethylenebenzothiazole-2-sulfenamide
MBT	2-mercaptobenzothiazole; 2-benzothiazolinethione
MBTS	benzothiazole disulfide; benzothiazyl disulfide
SeMDC; SeDMC	selenium dimethyldithiocarbamate
TBBS	*N*-*tert*-butylbenzothiazole-2-sulfenamide; *N*-*tert*-butylbenzothiazylsulfenamide
TeEDC; TeDEC	tellurium diethyldithiocarbamate
TETD	tetraethylthiuram disulfide
TMTD	tetramethylthiuram disulfide
TMTM	tetramethylthiuram monosulfide
TU	thiourea
ZBDC; ZDBC	zinc dibutyldithiocarbamate
ZEDC; ZDEC	zinc diethyldithiocarbamate
ZMBT	zinc-2-mercaptobenzothiazole
ZMDC; ZDMC	zinc dimethyldithiocarbamate

3 Antioxidants and antiozonants

APPD	*N*-alkyl-*N*′-phenyl-*p*-phenylenediamine
BMPPD; 77PD	*N*,*N*′-bis-(1,4-dimethylpentyl)-*p*-phenylenediamine
CPPD	*N*-cyclohexyl-*N*′-phenyl-*p*-phenylenediamine
DLTDP	dilauryl thiodipropionate
DNPD	*N*,*N*′-di-2-naphthyl-*p*-phenylenediamine
DOPD; 88PD	*N*,*N*′-dioctyl-*p*-phenylenediamine
DPA	diphenylamine
DPPD	*N*,*N*′-diphenyl-*p*-phenylenediamine
DTPD	*N*,*N*′-ditolyl-*p*-phenylenediamine
EDTMQ; ETMQ	6-ethoxy-1,2-dihydro-2,2,4-trimethylquinoline
IPPD	*N*-isopropyl-*N*′-phenyl-*p*-phenylenediamine
NBC; NDBC	nickel dibutyldithiocarbamate
ODPA	octylated diphenylamine
PANA; PAN	*N*-phenyl-α-naphthylamine
PBNA; PBN	*N*-phenyl-β-naphthylamine
PPDPA	*p*-isopropoxydiphenylamine
SPH	styrenated phenol
TNPP	tri(nonylphenyl)phosphite
ZMBI	zinc-2-mercaptobenzimidazole

4 Plasticizers and softeners

BOP	butyl octyl phthalate
DBP	dibutyl phthalate