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Rubber compounding ingredients — Abbreviations

AMENDMENT 1: New materials

Ingrédients de mélange du caoutchouc — Abréviations

AMENDEMENT 1: Nouveaux matériaux

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Foreword

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Amendment 1 to International Standard ISO 6472:1994 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

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Rubber compounding ingredients — Abbreviations

AMENDMENT 1: New materials

1 Accelerators

HMDC hexamethylenediamine carbamate
 IUPAC: 6-ammoniohexyl carbamate

NOTE HMDC is a synthetic rubber accelerator.

HMMA *N,N'*-hexamethylene-bis-methacrylamide
 IUPAC: *N,N'*-hexamethylenedimethacrylamide

NOTE HMMA is a peroxide coagent, etc.

MBOCA 4,4'-methylene-bis(*o*-chloroaniline)
 IUPAC: 2,2'-dichloro-4,4'-methylenedianiline

NOTE MBOCA is a curative and polyurethane-chain extender.

MPBM *N,N'*-*m*-phenylene-bis-maleimide
 IUPAC: *N,N'*-*m*-phenylenedimaleimide

MTT 3-methylthiazolidine-thione-2
 IUPAC: 3-methylthiazolidine-2-thione

NOTE MTT is a curative for chloroprene rubber and chlorobutyl rubber.

TAIC triallyl isocyanurate
 IUPAC: 1,3,5-triallyl-1,3,5-triazine-2,4,6-trione

TBzTD tetrabenzylthiuram disulfide
 IUPAC: same

TESPT bis(3-triethoxysilylpropyl) tetrasulfide
 IUPAC: bis[3-(triethoxysilyl)propyl]tetrasulfide

NOTE TESPT is also a silane-coupling agent.

TIBTD	tetraisobutylthiuram disulfide IUPAC: same
TMPTM	trimethylol propane trimethacrylate IUPAC: 2-ethyl-2-(methacryloyloxymethyl)trimethylene dimethacrylate
NOTE	TMPTM is a peroxide coagent.
ZnDNC	zinc dinonyldithiocarbamate IUPAC: zinc bis(dinonyldithiocarbamate)

2 Antidegradants

BHA	butyl hydroxyanisole IUPAC: a mixture of 2- <i>tert</i> -butyl-4-hydroxyanisole and 3- <i>tert</i> -butyl-4-hydroxyanisole
DAHQ	2,5-di- <i>tert</i> -amylhydroquinone IUPAC: 2,5-di- <i>tert</i> -pentylhydroquinone
DBHQ	2,5-di- <i>tert</i> -butylhydroquinone IUPAC: same

3 Isocyanates

NOTE These isocyanates are not added to rubber as compounding ingredients although some dimerized and polymerized versions are used for this purpose. The abbreviations shown are included

- in recognition of their use (some more so than others) in the preparation of polyurethane rubbers;
- to discourage the adoption of these symbols for other compounding ingredients.

CHDI	1,4-cyclohexane diisocyanate IUPAC: cyclohex-1,4-ylene diisocyanate
HDI	1,6-hexamethylene diisocyanate IUPAC: hexamethylene diisocyanate
HMDI	4,4'-dicyclohexylmethane diisocyanate IUPAC: methylenedicyclohex-1,4-ylene diisocyanate
IPDI	isophorone diisocyanate IUPAC: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
MDI	4,4'-diphenylmethane diisocyanate IUPAC: methylenedi- <i>p</i> -phenylene diisocyanate

NDI	naphthalene-1,5-diisocyanate IUPAC: naphthalene-1,5-diyl diisocyanate
PMPI	polymethylene polyphenyl isocyanate IUPAC: α (isocyanatophenyl)methyl- ω -isocyanatophenyl poly[(isocyanatophenylene)methylene]
PPDI	<i>p</i> -phenylene diisocyanate IUPAC: same
TDI	toluene diisocyanate IUPAC: <i>x</i> -methyl- <i>y</i> -phenylene diisocyanate, where <i>x</i> is a number and <i>y</i> denotes <i>o</i> , <i>m</i> or <i>p</i>
TIPT	tris(<i>p</i> -isocyanatophenyl) thiophosphate IUPAC: same
TMDI	2,2,4- and 2,4,4-trimethyl hexamethylene diisocyanate IUPAC: 2,2,4-trimethylhexamethylene diisocyanate and 2,4,4-trimethylhexamethylene diisocyanate
TMXDI	<i>m</i> -tetramethylxylylene diisocyanate IUPAC: 1,3-bis(2-isocyanatopropan-2-yl)benzene
TTI	4,4'4"-triphenylmethane triisocyanate IUPAC: methylidynetris(<i>p</i> -phenylene) triisocyanate

4 Peroxides

BPO	benzoyl peroxide dibenzoyl peroxide IUPAC: dibenzoyl peroxide
BPV	<i>n</i> -butyl bis(4,4- <i>tert</i> -butyl peroxy) valerate 3,3-bis(<i>tert</i> -butyl peroxy) butane carboxylic acid <i>n</i> -butyl ester IUPAC: butyl 4,4-bis(<i>tert</i> -butyldioxy) valerate
DBPC	1,1-bis(<i>tert</i> -butyl peroxy)-3,5,5-trimethylcyclohexane 1,3,3-trimethyl-5,5-di- <i>tert</i> -butyl peroxy cyclohexane IUPAC: di- <i>tert</i> -butyl 3,3,5-trimethylcyclohexylidene diperoxide

DCBP	2,4-dichlorobenzoyl peroxide bis(2,4-dichlorobenzoyl) peroxide IUPAC: bis(2,4-dichlorobenzoyl) peroxide
DMBHa	2,5-dimethyl-2,5-di-(<i>tert</i> -butyl peroxy) hexane 2,5-di-(<i>tert</i> -butyl peroxy)-2,5-dimethylhexane IUPAC: di- <i>tert</i> -butyl 1,1,4,4-tetramethyltetramethylene diperoxide
DMBPHy	2,5-dimethyl-2,5-di-(<i>tert</i> -butyl peroxy) hexyne-3 2,5-di- <i>tert</i> -butyl peroxy-2,5-dimethylhexyne-3 IUPAC: di- <i>tert</i> -butyl 1,1,4,4-tetramethylbut-2-ynylene diperoxide
EBPB	ethyl-3,3-bis(<i>tert</i> -butyl peroxy) butyrate IUPAC: ethyl 3,3-bis(<i>tert</i> -butyldioxy)butyrate
MBPP	4-methyl-2,2-bis(<i>tert</i> -butyl peroxy) pentane IUPAC: di- <i>tert</i> -butyl 1,3-dimethylbutylidene diperoxide
TBCP	<i>tert</i> -butyl cumyl peroxide <i>tert</i> -butyl peroxy (isopropyl benzene) IUPAC: <i>tert</i> -butyl 1-methyl-1-phenylethyl peroxide
TBPB	<i>tert</i> -butyl perbenzoate IUPAC: same

5 Plasticizers and softeners

DOTP	dioctyl terephthalate bis(2-ethylhexyl) terephthalate IUPAC: bis(2-ethylhexyl) terephthalate
DOZ	dioctyl azelate bis(2-ethylhexyl) azelate IUPAC: bis(2-ethylhexyl) azelate
DUP	diundecyl phthalate IUPAC: same
ELO	epoxidized linseed oil IUPAC: not applicable

ESO	epoxidized soya bean oil IUPAC: not applicable
ODA	octyl decyl adipate IUPAC: decyl octyl adipate
TCEF	trichloroethyl phosphate IUPAC: tris(2-chloroethyl) orthophosphate
TCP	tricresyl phosphate IUPAC: tri- <i>x</i> -tolyl orthophosphate, where <i>x</i> denotes <i>o</i> , <i>m</i> , <i>p</i> or mixture
TOF	trioctyl phosphate tri-(2-ethylhexyl) orthophosphate IUPAC: tris(2-ethylhexyl) orthophosphate
TOTM	trioctyl trimellitate tri-(2-ethylhexyl) trimellitate IUPAC: tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate

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