INTERNATIONAL STANDARD

ISO 1043-3

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Plastics - Symbols -

Part 3: Plasticizers

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Plastiques - Symboles - (standards.iteh.ai)

Partie 3: Plastifiants

ISO 1043-3:1988

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ISO 1043-3: 1988 (E)

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.

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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International Standard ISO 1043-3 was prepared by Technical Committee ISO/TC 61, *Plastics*.

ISO 1043-3:1988

Together with ISO 1043-1 and ISO 1043-2, it cancels and replaces ISO 1043: 1978, of 76db-406a-9064-which it constitutes an extension and a partial revision: 051351525/iso-1043-3-1988

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.

Plastics — Symbols —

Part 3:

Plasticizers

Scope and field of application

- 1.1 This part of ISO 1043 provides uniform symbols for terms relating to plasticizers. It includes, in general, only those symbols that have come into established use.
- 1.2 The purpose of this part of ISO 1043 is to prevent the occurrence of more than one symbol for a given plasticizer. The symbols are primarily intended to be a convenient shorthand for chemical names in publications and other written matter. standard

NOTE - Mixtures of plasticizers are not considered in this part of ISO 1043.

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Explanatory notes

- 2.1 Unless otherwise indicated, the alkyl groups are n-alkyl groups and the phthalates are esters of o-phthalic acid.
- 2.2 The first appearance of the symbols in texts shall be enclosed in parentheses and shall be preceded by the term written in full.
- 2.3 No letter is used in the symbols to indicate normal (n-) linear alcohols. For branched (iso-) alcohols, the additional letter I is used, with one exception: in view of worldwide usage of the letter O for 2-ethylhexyl (for example, in DOP and DOA), this practice is observed in this part of ISO 1043 and the n-octyl group is coded NO (as in DNOP). Because of this dual usage, the application of the rule specified in 2.2 is most important.
- 2.4 The letter I designates iso-branched groups (for example, DIOP). However, DTDP is sometimes used instead of DITDP because di-n-tridecyl phthalate is not used as a plasticizer; when DTDP is used, it is important that the rule specified in 2.2 is observed.
- 2.5 For plasticizers based on di-esters of the same alcohol, the first letter of the symbol is D.

2.6 The letter P may be used in place of F for "phosphate" in plasticizer symbols. (See also footnote to clause 3.)

Symbols for plasticizers

Plasticizer

Symbol

ASE	Alkysulfonic acid ester
BBPP	Benzyl butyl phthalate
BOA	Benzyl octyl adipate (Benzyl 2-ethylhexyl adipate)
speen.	Butyl octyl phthalate (Butyl 2-ethylhexyl
	phthalate)
DBP	Dibutyl phthalate
DBS	Dibutyl sebacate
	7 Dicyclohexyl phthalate
	8Dicapryl phthalate
DDP	Didecyl phthalate
DEP	Diethyl phthalate
DHP	Diheptyl phthalate
DHXP	Dihexyl phthalate
DIBP	Diisobutyl phthalate
DIDA	Diisodecyl adipate
DIDP	Diisodecyl phthalate
DIHP	Diisoheptyl phthalate
DIHXP	Diisohexyl phthalate
DINA	Diisononyl adipate
DINP	Diisononyl phthalate
DIOA	Diisooctyl adipate
DIOP	Diisooctyl phthalate
DIPP	Diisopentyl phthalate
DITDP	Diisotridecyl phthalate (see 2.4)
DMP	Dimethyl phthalate
DNOP	Di-n-octyl phthalate (see 2.3)
DNP	Dinonyl phthalate
DOA	Dioctyl adipate (Di-2-ethylhexyl adipate)
DOIP	Dioctyl isophthalate (Di-2-ethylhexyl isophthalate)
DOP	Dioctyl phthalate (Di-2-ethylhexyl phthalate)
DOS	Dioctyl sebacate (Di-2-ethylhexyl sebacate)
DOTP	Dioctyl terephthalate (Di-2-ethylhexyl
	terephthalate)
DOZ	Dioctyl azelate (Di-2-ethylhexyl azelate)
DPCF	Diphenyl cresyl phosphate
DPOF	Diphenyl octyl phosphate
DUP	Diundecyl phthalate
ELO	Epoxidized linseed oil
ESO	Epoxidized soya bean oil

ISO 1043-3: 1988 (E)

Symbol	Plasticizer	Symbol	Plasticizer
HNUA HNUP HXODA HXODP NUA NUP ODA ODP ODTM TCEF	Heptyl nonyl undecyl adipate (= 711 A) Heptyl nonyl undecyl phthalate (= 711 P) Hexyl octyl decyl adipate (= 610 A) Hexyl octyl decyl phthalate (= 610 P) Nonyl undecyl adipate (= 911 A) Nonyl undecyl phthalate (= 911 P) Octyl decyl adipate Octyl decyl phthalate n-octyl decyl trimellitate Trichloroethyl phosphate	TCF ¹⁾ THTM TIOTM TOF TOPM TOTM TPF TTP TXF	Tricresyl phosphate; tritolyl phosphate (TTP) Triheptyl trimellitate Triisooctyl trimellitate Trioctyl phosphate (Tri-2-ethylhexyl phosphate) Tetraoctyl pyromellitate (Tetra-2-ethylhexyl pyromellitate) Trioctyl trimellitate (Tri-2-ethylhexyl trimellitate) Triphenyl phosphate See TCF above Trixylyl phosphate

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¹⁾ It is normal practice in the United Kingdom to use P in place of F to signify "phosphate". However, the abbreviation "TCP" is not acceptable because it is a registered trade mark in the United Kingdom. Consequently, the abbreviation TTP (derived from the chemical name "tritolyl phosphate") has been adopted.

Annex

List of symbols used for components of terms

(This annex forms an integral part of the standard.)

A.1 List by symbols Component Sym							
Letter Components of terms		S	Decyl Di	D D			
Α	adipate, alkyl		5.				
В	benzyl, butyl		Enguidinad	-			
Č	capryl, chloro, cresyl		Epoxidized	E			
СН	cyclohexyl		Ester	E			
D	decyl, di		Ethyl	E			
E	epoxidized, ester, etl	and					
	•	іуі	Heptyl	Н			
F	phosphate		Hexyl	HX			
H	heptyl						
HX	hexyl		Iso	1			
1	iso		150	ı			
LO	linseed oil						
М	methyl		Linseed oil	LO			
N	nonyl, normal						
0	octyl		Methyl	М			
P	pentyl, phenyl, phtha (see 2.6)		RD PREVIEW				
PM	pyromellitate	(standard	Nonyl	N			
S	sebacate, sulfonic ac	id (Stanuart	Normal 11 • 41)	N			
SO	soya bean oil						
T	tere, tetra, tri	ISO 1043	3-OctvIX	0			
тм	trimellitate	https://standards.iteh.ai/catalog/standards	· · · · · · · · · · · · · · · · · · ·				
U	undecyl						
X	xylyl	84505f35f525/is		P			
ž	azelate		Phenyl	Р			
_	azeiate		Phosphate	F, P (see 2.6)			
			Phthalate	P			
A 2 I	ist has a summarise		Pyromellitate	PM			
A.2 List by components of terms							
_			Sebacate	S			
Component		Symbol	Soya bean oil	so			
Adinas		^	Sulfonic acid	S			
Adipate		A	Carrothe acid	J			
Alkyl		A	_	_			
Azelate		Z	Tere	Т			
D 1			Tetra	T			
Benzyl		В	Tri	T			
Butyl		В	Trimellitate	TM			
Conmid							
Capryl		C	Undecyl	U			
Chloro		C		•			
Cresyl	•	C					
Cyclohexyl		СН	Xylyl	X			

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