

Introductory Notes

Unless otherwise indicated, the resistance tests for Dolit systems were performed using chemicals of technically customary purity grades. The concentrations of anorganic salts and organic solids, insofar as they are water-soluble, correspond to saturated solutions at 20 °C.

For cements the resistance is valid at the boiling point resp. at the specified temperature.

The information contained in this Technical Information should be used as a guideline only. Additional testing is required when products are exposed to a combination of chemicals or used under divergent pressure or temperature conditions.

Explanation of Symbols:

+	=	resistant
(+)	=	resistant under certain circumstances (e.g. short-term stress)
-	=	not resistant
*	=	up to 150 °C
**	=	after preliminary thermal treatment
***	=	only after acidification
°	=	at 10 °C

When using Dolite cements as laying or pointing material for floors and walls, it can be assumed that temperatures above 30 °C will not occur for longer periods of time. In this case, instead of being „resistant under certain circumstances“, the classification can be changed to „resistant“.

All information contained in this Technical Information is based on the present state of our knowledge and practical experience. All data are approximate values for guidance only. A legally binding warranty of certain characteristics or the suitability for a certain purpose of use cannot be derived from this.

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This issue replaces all previous versions.

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Acetaldehyde	+	+	+	+	+	+
Acetic acid up to 3 %	+	+	+	+	+	+
Acetic acid up to 10 %	+	+	+	+	+	+
Acetic acid 100 %	+	+	+	+	+	+
Acetic anhydride	+	(+)	+	+	+	+
Acetone	+	+**	+	+	+	+
Acetonitrile	-	+	+	+	+	+
Acrylonitrile	-	+	+	+	+	+
Alcohol (Ethanol)	+	+	+	+	+	+
Aluminium chloride solution 30 %	+	+	+	+	+	+
Aluminium sulphate solution	+	+	+	+	+	+
Amido sulphuric acid solution 17 %	+	+	+	+	+	+
Ammoniac 25 %	+	+	+	+	+	+
Ammonium carbonate solution 50 %	+	+	+	+	+	+
Ammonium chloride solution 25 %	+	+	+	+	+	+
Ammonium hydrogen phosphate solution 40 %	+	+	+	+	+	+
Ammonium nitrate solution 50 %	+	+	+	+	+	+
Ammonium peroxide sulphate solution 50 %	+	+	+	+	+	+
Ammonium sulphate solution 50 %	+	+	+	+	+	+
Ammonium sulphide solution 50 %	+	+	+	+	+	+
Aniline	(+)	(+)*	+*	+	(+)	+
Aniline water 1:99	+	+	+	+	+	+
Antifreeze agent	+	+	+	+	+	+
Aqua regia	-	-	-	-	-	+
Barium chloride solution 25 %	+	+	+	+	+	+
Battery acid	+	+	+	+	+	+
Benzaldehyde	+*	+*	+*	+	(+)	(+)
Benzene	+	+	+	+	+	+
Benzenesulphonic acid up to 10 %	+	+	+	+	+	+
Benzine	+	+	+	+	+	+
Benzoic acetate	+*	+*	+*	+	+	+
Benzoic acid up to 10 %	+	+	+	+	+	+
Benzoic alcohol	+*	+*	+*	+	+	+
Benzoic chloride	+*	+*	+*	+	+	+
Boric acid 5 %	+	+	+	+	+	+
Butan-n-ol	+	+	+	+	+	+
sec.-Butan-ol	+	+	+	+	+	+
tert.-Butan-ol	+	+	+	+	+	+
Butyric acid up to 10 %	+*	+*	+*	+	+	+
Butyl acetate	+	+	+	+	+	+
Butyl ether	+	+	+	+	+	+

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Cadmium nitrate 50 %	+	+	+	+	+	+
Cadmium sulphate 50 %	+	+	+	+	+	+
Calcium chloride solution 40 %	+	+	+	+	+	+
Calcium hydrogen sulphite solution	+	+	+	+	+	+
Calcium hydroxide solution 50 %	-	+	+	+	+	+
Calcium nitrate solution 50 %	+	+	+	+	+	+
Calcium sulphate solution 1 : 1	+	+	+	+	+	+
Carbon disulphide	+	+	+	+	+	+
Carbon tetrachloride	+	+	+	+	+	+
Carbondisulphide	+	+	+	+	+	+
Carbonic acid	-	+	+ ¹	+	+	+
Castor oil	+	+	+	+	+	+
Chlorinated lime water 1 : 1	+	+	(+)	+	+	+
Chlorinated water, saturated with chlorine	+	+	+	+	+	+
Chlorinated water, saturated with chlorine 1 : 1	+	+	+	+	+	+
Chlorinated water, saturated with chlorine 1 : 3	+	+	+	+	+	+
Chlorine containing gases up to 2 % C12 at 20° C		+	+	+	+	+
Chlorine dioxide (0,5 % aqueous solution)	+	-	-	-	+	+
Chloroacetic acid 10 %	+	+	+	+	(+)	+
Chloroacetic acid 100 %	+*	(+)*	+*	(+)	-	-
Chlorobenzene	+	+	+	+	+	+
Chloroform	+	+	+	+	-	+
Chromic acid (cleaning mixture)	+	(+)	-	-	(+)	+
Chromic acid 10 %	+	(+)	(+)	+	+	+
Chromic acid 25 %	+	(+)	(+)	(+)	+	+
Citric acid solution 10 %	+	+	+	+	+	+
Coconut butter acid	+	+	+	+	+	+
Common salt solution 25 %	+	+	+	+	+	+
Copper (II)-sulphate solution 15 %	+	+	+	+	+	+
Copper acetate solution 5 %	+	+	+	+	+	+
Cresole	+*	(+)*	+*	+	+	+
Cresole solution 1 %	+	+	+	+	+	+
Crude oil	+	+	+	+	+	+
Cumene	-	+	+	+	+	+
Cyclohexane	+	+	+	+	+ ¹	+
Cyclohexanol	+	+	+	+	+	+
Cyclohexanone	+	+**	+	+	+	+
Cyclopentane	+	+	+	+	+	+
Cyclopentanol	+	+	+	+	+	+
Cyclopentanone	+	+**	+	+	+	+

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Dichloroethane 1, 2	+	+	+	+	+	+
Dichloroethylene 1, 2(EDC)	+	+	+	+	(+)	(+)
Dichloromethane	+	+	+	(+)	-	(+)
Diesel fuel	+	+	+	+	+	+
Diethyl ether	+	+	+	+	+	+
Di-isopropyl ether	+	+	+	+	+	+
Dimethyl formamide	+	(+)	-	-	-	-
Dimethyl sulphoxide	-	(+)	(+)	+	+	+
Dinitrobenzole-water 1 : 1	+	+	+	+	+	†
2,4 Dinitrotoluene	+	+	+		+	+
1,4-Dioxan	+	+	+	+	+	+
Diphenyl-water 1 : 1	+	+	+	+	+	+
Di-sodium hydrogenphosphate solution 8 %	+	+	+	+	+	+
Disulphur dichloride	+	+	+	+	+	+
Ethanol	+	+	+	+	+	+
Ethanol-water 1 : 1	+	+	+	+	+	+
Ether (Diethylether)	+	+	+	+	+	+
Ethyl acetate	+	+	+	+	+	+
Ethyl benzole	+	+	+	+	+	+
Ethyl chloride	+°	+°	+°	+	+	+
Ethylamine solution 40 ;%	+	+	+	+	+	+
N-Ethylaniline	+	+	+	+	+	+
Ethylene glycol	+*	+*	+*	+	+	+
Fluoroxillic acid 31 %	-	+	+	(+)		+
Formaldehyde solution up to 35 %	+	+	+	+	+	+
Formic acid up to 1 %	+	+	+	+	-	-
Formic acid up to 20 %	+	+	+	+	+	+
Formic acid up to 5 %	+	+	+	+	+	+
Formic acid up to 98 %	+	+	+	+	+	+
Furfural	+*	+*	+*	+	(+)	(+)
Furfuryl alcohol	+*	+*	+*	+	(+)	+
Gallic acid up to 10 %	+	+	+	+	+	+
Glycerine .	+*	+*	+*	+	-	T
Glycol	+*	+*	+*	+	+	+
Glykol acetate	+*	+*	+*	+	+	+
Heating oil	+	+	+	+	+	+
Hydrazine up to 100 % (tempered)	-	(+)	(+)	+	-	+
Hydrobromic acid 10 %	+	+	+	+	+	+
Hydrobromic acid 25 %	+	+	+	+	+	+
Hydrobromic acid 48 %	+	+	+	+	+	+

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Hydrochloric acid	+	+	+	+	+	+
Hydrochloric acid up to 20 %	+	+	+	+	+	+
Hydrochloric acid up to 37 %	+	+	+	+	+	+
Hydrofluoric acid up to 5 %	-	+	+	(+)	-	+
Hydrofluoric acid up to 50 %	-	+	+	-	-	+
Hydrogen peroxide 30 %	+	-	-	-	+	+
Iron(II)-Sulphate solution 20 %	+	+	+	+	+	+
Iron(III)-chloride solution 46 %	+	+	+	+	+	+
Isobutyl alcohol	+	+	+	+	+	+
Isopropyl alcohol	+	+	+	+	+	+
Lactic acid up to 5 %	+	+	+	+	+	+
Lactic acid up to 10 %	+	+	+	+	+	+
Lactic acid up to 90 %	+	+	+	+	+	+
Linseed oil	+	+	+	+	+	+
Liver oil	+	+	+	+	+	+
Machine oil	+	+	+	+	+	+
Magnesium bisulphite solution	+	+	+	+	+	+
Magnesium chloride solution 35 %	+	+	+	+	+	+
Magnesium hydrogen sulphite solution	+	+	+	+	+	+
Maleic acid up to 10 %	+	+	+	+	+	+
Mercury-II-bromide solution 5 %	+	+	+	+	+	+
Mercury-II-chloride solution 5 %	+	+	+	+	-	+
Methyl acetate	+	+	+	+	+	+
Methyl alcohol	+	+	+	+	+	+
Methyl alcohol water 1 : 1	+	+	+	+	+	+
Methyl cyclohexan-l-ol	+*	+*	+*	+	+	+
Methyl ethyl ketone	+	+**	+	+	(+)	(+)
Methylene chloride	+	+	+	+	-	(+)
Milk of lime 50 %	-	+	+	+	+	+
Mineral oil	+	+	+	+	+	+
Mixed acid (15 % HNO ₃ + 4 % HF)	-		-	-	-	+
Mordant dye mixture (15 % HNO ₃ + 4 % HF)	-	-	-	-	(+)	+
Naphthalene water 1 : 1	+	+	+	+	+	+
Nickel chloride solution 10 %	+	+	+	+	+	+
Nickel nitrate solution 10 %	+	+	+	+	+	+
Nickel sulphate solution 15 %	+	+	+	+		+

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Nitric acid 1 %	+	(+)	- +	+	+	+
Nitric acid 5 %	+		+	(+)	+	+
Nitric acid 10 %	+	-	(+)	-	+	T
Nitric acid 20 %	+		(+)	-	+	+
Nitric acid 65 %	+					+
Nitric acid 15 % + hydrofluoric acid 3 %	-		-			+
Nitroaniline	+*	(+)*	+*	+	+	+
Nitroanilin + H2O 1 : 99	+	+	+	+	+	+
Nitrobenzene	+*	(+)*	+*	+	+	+
Nitrobenzene-water, 1 : 99	+	+	+	+	+	+
Nitrophenol	+*	(+)*	+*	+	+	+
Nitrophenol-water, 1 : 99	+	+	+	+	+	+
Nitrosyl sulphuric acid (nitrosyl hydrogen sulphate)	+	-	-	-	-	-
n-octane	+	+	+	+	+	+
n-octanol-l	+	+	+	+,	+	+
4-nonylphenol	-	+**	+*	+	(+)	(+)
n-octane	+	+	+	+	+	+
n-octanol-l	+	+	+	+,	+	+
Oils, animal	+*	+*	+*	+	+	+
Oils, vegetable	+*	+*	+*	+	+	+
Oleic acid	+*	+*	+*	+	+	+
Oleum up to 32 %	(+)	-	-	-	-	-
Otto fuels	+	+	+	+	+	+
Oxaluric acid solution 10 %	+	+	+	+	+	+
Paraffin oil	+*	+*	+	+	+	+
Pentan-l-ol	+	+	+	+	+,	+
Perchloric acid up to 70 %	-	+	-	-	+	+
Petroleum	+	+	+	+	+	+
Phenol solution 1 %	+	+	+	+	+	+
Phenol, techn.	+*	(+)	+*	+	(+)	(+)
Phosphoric acid up to 20 %	+	+	+	+	+	+
Phosphoric acid up to 85 %	+	+	+	+	+	+
Phosphorus chloride	+	+	+	+	+	+
Polychlorinated	+*	+*	+*	+	+	+
Potassium bichromate solution 11 % (also in diluted sulphuric acid solution)	+	+	+	+	+	+
Potassium bromide solution 40 %	+	+	+	+	+	+
Potassium carbonate solution 50 %	-	+	+	+	+	+
Potassium chlorate solution 5 %	+	+	+	+	+	+
Potassium chloride solution 25 %	+	+	+	+	+	+

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Potassium cyanide solution 40 %	-	+	+	+	+	+
Potassium dichromate 10 %	+	+	(+)	+	+	+
Potassium hexacyanoferrate (III) solution 50 %	+	+	+	+	+	+
Potassium hydroxide up to 20 %	-	-	+	+	+	+
Potassium hydroxide up to 50 %	-	-	+	+	+	+
Potassium nitrate solution 25 %	+	+	+	+	+	+
Potassium permanganate solution 10 %	+	+	+	+	+	+
Potassium peroxide sulphate-water 1:1	+	+	+	+	+	+
Potassium peroxide up to 5 °	-	+	(+)	(+)	+	+
Propanol-1	+	+	+	+	+	+
Propyl acetate	+	+	+	+	+	+
Pyridine	+	(+)	(+)	(+)	-	-
Pyridine solution 1 %	+	+	+	+	+	+
Quinol water 1 : 1	-	+	+	+	+	+
Salicylic acid up to 50 %	+	+	+	+	+	+
Silicon tetrachloride	+	+	+	+	+	+
Sodium bichromate solution 50 %	+	+	+	+	+	+
Sodium bichromate solution 50 % (also in diluted sulphuric acid solution)	+	+	+	+	+	+
Sodium carbonate solution 18 %	-	+	+	+	+	+
Sodium chloride solution 25 %	+	+	+	+	+	+
Sodium chlorite solution 5 %	-	+	-	(+)	+	+
Sodium hydrogensulphate solution 20 %	+	+	+	+	+	+
Sodium hydrogensulphite solution 39 %	+	+	+	+	+	+
Sodium hydroxide up to 20 %	-	-	+	+	+	+
Sodium hydroxide up to 50 %	-	-	+	+	+	+
Sodium hypochlorite solution with 12 % active chlorine	-	-	-	-	+	+
Sodium hypochlorite solution-water, 1 : 9 diluted	-	(+)	(+)	(+)	+	+
Sodium hypochlorite solution-water, 1 : 99 diluted	-	(+)	+	+	+	+
Sodium nitrite solution 45 %	+	+	+	+	+	+
Sodium peroxide solution up to 5 %	-	+	(+)	(+)	+	+
Sodium sulphate solution 15 %	+	+	+	+	+	+
Sodium sulphite solution 20 %	+	+	+	+	+	+
Sodium tartrate solution 30 %	+	+	+	+	+	+
Sodium thiosulphate solution 40 %	+	+	+	+	+	+
Sulphur, melted (130° C)	+	+	+	+		
Sulphuric acid up to 10 %	+	+	+	+	+	+
Sulphuric acid up to 20 %	+	+	+	+	+	+
Sulphuric acid up to 50 %	+	+	+	+	+	+
Sulphuric acid up to 70 %	+	+	+	+	+	+
Sulphuric acid up to 70 %, at 100° C	+	+	+	+	+	+

DOLIT Laminates		LC	LF			VEL
DOLIT Cements	HB	CN	FN at 20 °C	FQ at 20 °C	VEQ at 20 °C	VEC at 20 °C
Sulphuric acid up to 90 %	+	+	-	(+)	-	+
Sulphuric acid up to 90 %, at 100° C	+	+	-	-	-	+
Sulphuric acid up to 96 %	+	(+)	-	-	-	(+)
Sulphuric acid up to 98 %	+	-	-	-	-	-
Sulphuric Ammonium s. Ammonium sulfid						
Sulphuryl chloride	+	+	+	+	(+)	(+)
Surfactant (Marlipol 013/80, Texapon M40)	-	+	+	+	+	+
Tanning agent (Tannine) solution 50 %	+	+	+	+	+	+
Tar, tar oils	+*	+*	+*	+	+	+
Tartaric acid up to 10 %	+	+	+	+	+	+
Tetra chloroethane	+	+	+	+	+	+
Tetrafluoroboric acid 48 %	-	+	+	+	(+)	+
Tetrahydrofuran	+	+	+	+	+	+
Tin (IV) chloride	+	+	+	-	+	+
Toluene	+	+	+	+	+	+
Trichloroacetic acid up to 1 %	+	+	+	+	+	+
Trichloroacetic acid 100 %	+*	(+)*	+*	+	+	+
Trichloroethane	+	+				
1,1,1-Trichloroethane	+	+	+	+	+	+
Trichloroethene	+	+	+	+	-	-
Trichlorotrifluoroethane	+	+				
Trichlorofluoromethane	+	+				
1,1,2-Trichlorotrifluoroethane	+	+	+	+	+	+
Trisodium phosphate solution 15 %	-	+	+	+	+	+
Turpentine	+	+	+	+	+	+
Urea, saturated solution	-	+	+	+	+	+
Varnish-makers naphta	+	+	+	+	+	+
Waste oils	+	+	+	+	+	+
Water vapour, not under pressure	(+)	+	-	+	+	+
Water. dest.	+***	+	+	+	+	+
Xylene	+	+	+	+	+	+
Zinc chloride solution 50 %	+	+	+	+	+	+
Zinc peroxide solution 5 %	+	+	(+)	(+)	+	+