# Symbols:

## **Concentration data:**

Ac Tr

С

Ð	stable
±	conditionally stable no chemical destruction. use value is adversely influenced.
0	unstable

no use value

= traces

= small concentration

= any concentration

- Sc Ntc = normal trade concentration S
  - = cold saturated at 20°C
  - = concentrated

	Alkorplan		Alkorflex		
I. Anorganic substances		temperature		temperature	
a. Acids and bases	Conc. %	23°C	50°C	23°C	50°C
gaseous ammonia	100	÷	÷	÷	÷
liquid ammonia	100	-	-	±	-
chromic acid	10	+	-	Ŧ	÷
potassium hydroxide solution	10	÷	±	÷	÷
potassium hydroxide solution	≤ 35	±	-	Ŧ	÷
aqueous lactic acid	50	+	±	±	-
sodium hydroxide	10	±	-	-	-
sodium hydroxide	≤ 50	-	-	-	-
aqueous phosphoric acid	≤ 50	+	÷	Ŧ	÷
nitric acid	10	÷	±	÷	÷
nitric acid	50	-	-	÷	±
hydrochloric acid	37	±	-	÷	±
hydrochloric acid	10	•	±	÷	±
sulphuric acid	50	÷	÷	±	-
sulphuric acid	96	-	-	±	-
sulphuric anhydride		÷	±	÷	±
ammonium hydroxide	10	<b>e</b>	±	•	•
ammonium hydroxide	10	<b>A</b>		<b>A</b>	<b>A</b>
ammonium hydroxide	32	±	-	+	÷
ammonium nitrate	S	+	+	+	÷
ammonium sulphate	S	+	•	•	•
ammonium chloride	S	+	÷	÷	÷
calcium chloride	≤ S	+	+	+	÷
calcium nitrate	≼ S	+	+	+	÷
calcium phosphate	Ac	+	+	+	÷
calcium sulphate	Ac	+	+	+	÷
fertiliser salts	S	+	+	+	÷
aqueous potassium carbonate	S	+	+	+	+
potassium bichromate	≤ 40	÷	<b>±</b>	+	÷
potassium chloride	S	Ð	÷	÷	÷
potassium chromate	10	÷	±	+	÷
potassium nitrate	S	÷	÷	+	÷
potassium perchlorate	S	<u>+</u>	<u>+</u>	<u>+</u>	•
potassium permanganate	S	<b>±</b>	-	+	<b>±</b>
potassium sulphate	Ac	+	÷	Ŧ	÷
copper sulphate	S	+	<u>+</u>	Ŧ	<u>+</u>
magnesium chloride	S	+	+	+	÷
soda carbonate	10	+	•	<b>(</b>	<b>(</b>

It organic substances         temperclure         temperclure           Conc. %         \$0^C         23°C         \$0°C         23°C         \$0°C         23°C         \$0°C         23°C         \$0°C         23°C         \$0°C			Alkorplan		Alkorflex	
Conc. %         23°C         50°C         23°C         50°C           exhoust gases, containing index ocid         Tr         C         C         C           exhoust gases, containing hydrochloric ocid         Ac         C         C         C         C           exhoust gases, containing hydrochloric ocid         Ac         C         C         C         C           exhoust gases, containing hydrochloric ocid         Ac         C         C         C         C           exhoust gases, with SO <sup>2</sup> Sc         C         C         C         C         C           ocatone         100         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C<	II. organic substances		temperature		temperature	
exhoust gases, containing nitresa acid         Tr         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <thi< th=""> <thi< th=""> <thi< th="">         I</thi<></thi<></thi<>		Conc. %	23°C	50°C	23°C	50°C
exhaust gases, containing hydrochloric acid         Ac         9         9         9           exhaust gases, containing hydrochloric acid         Ac         9         9         9           exhaust gases, containing hydrochloric acid         Ac         9         9         9         9           exhaust gases, containing hydrochloric acid         Ac         9         9         9         9           exhaust gases, containing hydrochloric acid         Ac         9         9         9         9           acetone         100         9         9         9         9         9         9           acetone         100         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9         9	exhaust gases, containing carbonic acid	Ac	Ŧ	÷	÷	÷
exhaust gases, contoining hydrochloric acid         Ac         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <td>exhaust gases, containing nitrose acid</td> <td>Tr</td> <td>÷</td> <td>±</td> <td>÷</td> <td>÷</td>	exhaust gases, containing nitrose acid	Tr	÷	±	÷	÷
exhaust gases with slophuric acid         Ac         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <thc< th="">         C         C</thc<>	exhaust gases, containing hydrochloric acid	Ac	Ŧ	÷	÷	÷
exhaust gases with SO <sup>2</sup> Sc         S	exhaust gases with sulphuric acid	Ac	Ŧ	÷	÷	÷
acetone       100       Image: Section of the s	exhaust gases with SO <sup>2</sup>	Sc	Ŧ	÷	÷	÷
anone       100       Image: Constraint of the second of the seco	acetone	100	-	-	-	-
asphalt       0       0       0       0         ehylene chloride       100       0       0       0         gasoline       100       0       0       0         butanol       100       0       0       0         butanol       100       0       0       0         butyric acid       20       0       0       0         butyl acetate       100       0       0       0         cyclohexane       100       0       0       0         direst/iformamide       100       0       0       0         aqueous acetic acid       100       0       0       0         aqueous acetic acid       100       0       0       0         aqueous acetic acid       100       0       0       0         aqueous formaldehyde       2       0       0       0         aqueous formaldehyde       < 40	anone	100	0	•	-	-
ethylene chloride       100       Image: Comparison of the second	asphalt		-	-	÷	÷
gasoline       100       0       100         berzol       0       0       0         butonol       100       0       0       0         aqueous butyric acid       20       0       0       0         butyric acid       C       0       0       0       0         butyric acid       C       0       0       0       0       0         butyl acetate       100       0       0       0       0       0       0         cyclohexane       100       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>ethylene chloride</td> <td>100</td> <td>0</td> <td>-</td> <td>-</td> <td>-</td>	ethylene chloride	100	0	-	-	-
benzol       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>gasoline</td> <td>100</td> <td>0</td> <td>•</td> <td>÷</td> <td>±</td>	gasoline	100	0	•	÷	±
butanol       100       100       100         aqueous butyric acid       20       100       100         butyric acid       C       100       100         cyclohexane       100       100       100         direst oil       Ntc       100       100         direst oil       Ntc       100       100         aqueous acetic acid       100       100       100         aqueous formaldehyde       <40	benzol		-	-	-	-
aqueous butyric acid       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20 <td< td=""><td>butanol</td><td>100</td><td>-</td><td>-</td><td>±</td><td>±</td></td<>	butanol	100	-	-	±	±
butyric acid       C       Image: Constraint of the second	aqueous butyric acid	20	-	-	±	-
butyl acetate       100       Image: Constraint of the second sec	butyric acid	С	-	-	-	-
cyclohexane       100       Image: Cyclohexane       Ntc       Image: Cyclohexane         diesel oil       Ntc       Image: Cyclohexane       100       Image: Cyclohexane       Image: Cyclohexane         aqueous acetic acid       100       Image: Cyclohexane	butyl acetate	100	-	-	-	-
diesel oil       Ntc       Image: State of the	cyclohexane	100	-	-	-	-
dimethylformamide       100       0       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10	diesel oil	Ntc	-	-	÷	÷
aqueous acetic acid       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10	dimethylformamide	100	-	-	-	-
aqueous acetic acid100±±acetic acid anhydrideC•±•iet fuel <kerosene)< td="">Ntc••±aqueous formaldehyde&lt; 40</kerosene)<>	aqueous acetic acid	10	÷	±	+	-
acetic acid anhydrideCImage: Constraint of the second of the secon	aqueous acetic acid	100	0	•	±	-
jet fuel <kerosene)< th="">NtcImage: Constraint of the second secon</kerosene)<>	acetic acid anhydride	С	0	-	±	-
aqueous formaldehyde        40       ±       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	jet fuel <kerosene)< td=""><td>Ntc</td><td>-</td><td>-</td><td>+</td><td>±</td></kerosene)<>	Ntc	-	-	+	±
glycol100±±±±±±±glycerine (aqueous/pure)Ac÷÷÷÷Urea33÷±÷÷÷isooctaneNtc•••÷methyl alcohol≤100•••÷methylene chloride100•••÷perchlorethyleneNtc••÷•turpentineNtc••••tetrahydrofuraneNtc••••toluolNtc••••trichlorethyleneNtc•••tylolNtc••••tetrahydrofuraneNtc•••toluolNtc••••toluolNtc••••toluolNtc••••toluolNtc••••trichlorethyleneNtc•••toluolNtc••••toluonNtc••••toluonNtc••••toluonNtc••••toluon•••••toluon•••••toluon•••••toluon••	aqueous formaldehyde	≤ 40	±	-	+	+
glycerine (aqueous/pure)AcImage: Constraint of the state of th	glycol	100	±	±	+	+
Urea33+±+++isooctaneNtcImage: Strain	glycerine (aqueous/pure)	Ac	+	±	÷	+
isooctaneNtc■●●●±methyl alcohol≤100■■●●●methylene chloride100■■●●●perchlorethyleneNtc■●●●●turpentineNtc■●●●●tetrahydrofuraneNtc●●●●●toluolNtc●●●●●trichlorethyleneNtc●●●●xylolNtc●●●●●petroleumNtc●●●●chloroformNtc●●●●	Urea	33	+	±	÷	+
methyl alcohol< 100<    methylene chloride100       perchlorethyleneNtc         turpentineNtc                                                                                                                 <td>isooctane</td> <td>Ntc</td> <td>-</td> <td>-</td> <td>+</td> <td>±</td>	isooctane	Ntc	-	-	+	±
methylene chloride100Image: Constraint of the second	methyl alcohol	≤100	-	-	+	+
perchlorethyleneNtcImage: Constraint of the systemturpentineNtcImage: Constraint of the systemtetrahydrofuraneNtcImage: Constraint of the systemtoluolNtcImage: Constraint of the systemtrichlorethyleneNtcImage: Constraint of the systemxylolNtcImage: Constraint of the systempetroleumNtcImage: Constraint of the systemthloroformNtcImage: Constraint of the system	methylene chloride	100	-	-	-	-
turpentineNtcImage: Constraint of the state of th	perchlorethylene	Ntc	-	-	±	-
tetrahydrofuraneNtcImage: Constraint of the second s	turpentine	Ntc	-	-	±	-
toluolNtcImage: Constraint of the second seco	tetrahydrofurane	Ntc	0	•	-	-
trichlorethylene Ntc O O O O xylol Ntc O O O O petroleum Ntc O O O O O chloroform Ntc O O ± O	toluol	Ntc	-	-	-	-
xylolNtcImage: Constraint of the sylolpetroleumNtcImage: Constraint of the sylolchloroformNtcImage: Constraint of the sylol	trichlorethylene	Ntc	-	-	-	-
petroleumNtc-++chloroformNtc	xylol	Ntc	-	-	-	-
chloroform Ntc 🗢 🛨 ᄅ	petroleum	Ntc	-	-	÷	Ŧ
	chloroform	Ntc	0	-	±	•

Alkorplan/Alkoflex: Chemical Stability





### III. foods and miscellaneous

ethyl alcohol	10	•	±	÷	<b>e</b>
ethyl alcohol	96	±	-	÷	÷
bleaching lye	12,5	-	-	÷	÷
sodium hypochloride	5	÷	±	+	÷
sodium hypochloride	12,5	±	-	÷	÷
vinegar		±	-	÷	÷
heating oils		-	-	±	-
cooking salt	S	÷	÷	÷	÷
seawater		÷	÷	÷	÷
urine		÷	±	+	÷
water, effluents of every type but without organic solvents		÷	+	÷	÷
detergents	Ntc	÷	±	÷	÷
butter		<u>+</u>	•	+	±

**Testing Method** 

The chemical resistance of Alkorplan/Alkorflex sheets is tested in accordance with DIN 53393.

resistance of the Alkorplan roofing membranes, since it is dependent on a number of factors, e.g. form (solid, liquid, gaseous), temperature, concentration, thickness, reaction time, etc ...

A mixture of chemical agents may show a higher degree of aggression than each of the components separately.

The evaluation only reflects the functionality and resistance of the sheets, without considering any surface or colour changes.

# **Chemical Stability**

The information contained in the present literature is based on current knowledge at the time of issue, and may be subject to change without notice.

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This testing method is not the only reference for the chemical

