



Chemical resistance table

The chemical resistance table serves as a guide for the resistance to media of all asbestos-free gaskets. All information is provided in accordance with the current state of knowledge and subject to alteration.

If in doubt, please use our free technical fax service. Details are given inside.



Chemical resistance table

Medium	Chemical formula	1.7	2000 ו				433			Ga	sket	mate	rial
		Top-sil-ML 1	Top-graph 2000	C-4106	C-4300	C-4400	C-4430/4433	C-4500	C-6307	C-8200	C-4408	C-4409	C-4509
Acetaldehyde	CH₃CH0												
Acetamide	CH_3CONH_2												•
Acetic acid 10%	СН₃СООН												
Acetic acid 100% (glacial acetic acid)	СН₃СООН												
Acetic acid ester	$CH_3COOC_2H_5$												
Acetone	CH₃COCH₃												
Acetylene	C_2H_2												
Adipic acid I	HOOC(CH ₂) ₄ COOH	•											
Air		•											
Aliphatic hydrocarbons (see under specific name)													
Alcohol (see under specific name)													
Alum	KAI(SO ₄) ₂												
Aluminum acetate	(CH ₃ COO) ₂ AI OH	•											
Aluminum chlorate	$AI(CIO_3)_3$												
Aluminum chloride	AICI ₃	•											
Ammonia	NH ₃	•											
Ammonium carbonate	(NH ₄) ₂ CO ₃	•											
Ammonium chloride	NH ₄ CI												
Ammonium hydrogenphosphate (diammonium phosph	nate) $(NH_4)_2HPO_4$												
Ammonium hydroxide	NH₄OH												
Amyl acetate	$CH_3COOC_5H_{11}$												
Aniline	$C_6H_5NH_2$												
Anon (Cyclohexanone)	$C_6H_{10}O$												
Arcton 12 (Frigen or Freon 12)	CCI_2F_2												
Arcton 22 (Frigen or Freon 22)	CHF₂CI												
Aromatic hydrocarbons (see under specific name)													
Asphalt (tar)													
B arium chloride	BaCl ₂												
Benzene	C_6H_6												
Benzoic acid	C_6H_5COOH												
Blast furnace gas													
Bleaching liquor (chloride of lime)													
Boiler feed water and boiler water (alkaline)													
Borax	$Na_2B_4O_7 \cdot 10H_2O$												
Boric acid	B (OH)₃	•											
Brine	NaCI	•											
Butane	C_4H_{10}			•	•	•						•	•
Butanol (butyl alcohol)	C_4H_9OH	•										•	•
Butanone (2) (M.E.K.)	$CH_3COC_2H_5$												
Butyl acetates	$CH_3COOC_4H_9$												•
Butyl alcohol	C_4H_9OH	•					•	•					
Butylamine	$C_4H_9NH_2$	A											
Butyric acid	<i>C</i> ₃ <i>H</i> ₇ <i>C</i> 00 <i>H</i>	•	•	•	•	•				•	•	•	•
													—

■ Resistant* Condit. recommended Not recommended

* Resistant means: Suitable for the appropriate use as a compressed gasket between flange surfaces.

Subject to technical alternations. 05.2004



For your choice of the right gasket we offer you a proven communication concept which leads you step by step to the right decision.

1. Application survey

A comparison of the sealing material characteristics with the criteria for typical fields of application gives you a first general survey.

2. Documentation of the product:

A technical data sheet is available for every material including the

pT diagram, which demonstrates different material behaviour to further facilitate your choice.

3. Resistance to media:

Here you find statements on the resistance of every Klinger gasket material.

Medium	Chemical formula	1	Top-graph 2000				133			Ga	sket	mate	ria
		I-ML	aph.	9	0	0	0/44	0	7	0	90	6	(
		Top-sil-ML 1	ıb-dc	C-4106	C-4300	C-4400	C-4430/4433	C-4500	C-6307	C-8200	C-4408	C-4409	001
C alcium chloride		<u> </u>	<u></u>	0	0	0	0	0	0	0	0	0	_(
Calcium hydroxide		•	•	•	•	•	•	•	•	•	•	•	
Calcium hypochlorite	Ca(OCI) ₂	•	•	<u> </u>	•	•	•	•	•		•		_
Calcium sulfate	CaSO ₄	•		_									_
Carbolic acid 100% (phenol)	C_6H_5OH				<u> </u>	_	<u> </u>		<u> </u>				_
Carbon dioxide		_	_	_	_	_	_	_	-	_	_	_	
Carbon disulfide		•	•		•	•	•	•		•	•	•	_
Carbon tetrachloride				\overline{A}					Ξ				_
Castor oil			_	_	_	_	_	_	_	-	_	_	_
Chlorine (dry)	Cl_2	•	•	<u> </u>	•	•	•	•		•	•		_
Chlorine (wet)	$\frac{Cl_2}{Cl_2}$			\overline{A}					_		Ť	Ť	_
Chlorine water (circa 0,5%)		_	•	•	•	•	•	•	•	•	•	•	
Chloroform	CHCl ₃								<u> </u>				_
Chromic acid	H ₂ CrO ₄		Ξ	$\overline{}$	Ξ		Ξ	Ξ	_	Ξ	Ξ	Ξ	_
Citric acid	(CH ₂ C00H) ₂ C(0H)C00H	_	_	-	_	_	_	_	_	_	_	_	_
Clophen T64	(011200011)20(011)00011		•		•	•	•	•	_		•	•	
Coagulating baths (up to 10%)	H_2SO_4			_						_		_	_
Condensation water	H ₂ OC ₄ —		_		_	_	_	•	_	•	_	_	_
Copper acetate	(CH ₃ C00) ₂ Cu								•				_
Copper sulfate			•			-	-	-					_
Cresol													_
Cyclohexanol	C ₆ H ₁₁ OH		=	=	_	_	=	_	_		_	_	
Cyclohexanone (see anon)	<u> </u>												_
D ecaline													_
Dibenzyl ether	(C ₆ H ₅ CH ₂) ₂ O		_	_	_	_	_	_	_	_	_	_	
Dibutyl phthalate	$\frac{(C_6H_5CH_2)_2C}{C_6H_4(COOC_4H_9)_2}$		_		_			_		-	_	_	_
Diesel oil	<u> </u>	•		-	-	-	-	-		-	-	-	_
Diethyl ether		-					-	-	_	-		_	_
Dimethyl formamide	$\frac{O_{2}n_{5}OO_{2}n_{5}}{HCON(CH_{3})_{2}}$									_	_	_	_
Diphyl (Dowtherm A)	110011(0113/2											_	_
Dye baths (alkaline, neutral, acidic)				_					•				_
Ethane	C_2H_6	-	•		•	•	•	•		•	_	_	_
Ethanol (ethyl alcohol)	C_2H_5OH						•		_	•	•	-	_
Ethyl acetate (acetic ethylester)	$CH_3COOC_2H_5$												_
Ethyl alcohol	C_2H_5OH		_	_	_	_	_	_	_	_	_	_	_
Ethyl chloride									<u> </u>				_
Ethylene	C_2H_5U C_2H_4		_	_							_	_	
Ethylene chloride		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	_
Ethylenediamine	(CH ₂ NH ₂) ₂		_	_	_	_	_	_				_	_
Ethylene glycol	(CH ₂ OH) ₂ (CH ₂ OH) ₂								•				_
Fatty acids from C_6 upwards (see palmitic, s											_		_
Fluorosilicic acid	H ₂ SiF ₆												_
Formaldehyde							•		•	•			_
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* Resistant means: Suitable for the appropriate use as a compressed gasket between flange surfaces.



3 4. Technical fax service:

Provide us with the data for your sealing situation and you will receive a reliable response from Klinger, often within 24 hours.

5. Sealing calculation with the help of your PC:

The efficient computer program

KLINGERexpert® for the experienced specialist. It helps to answer all questions on construction, design and maintenance. Software and on-linehelp on CD-ROM.

6. The best way: to test

We will deliver original material for a test under your service conditions.

7. On-the-spot advice

With very difficult tasks we will advise you on the spot. We offer adapted designs you on the basis of our standard qualities and special designs for your needs.

The efficient computer program	test under your service con	ditions											
Medium	Chemical formula		000				3			Ga	sket	mate	riai
		Top-sil-ML 1	Top-graph 2000				C-4430/4433						
		- <i>Sil-</i> 1	-gra	C-4106	C-4300	C-4400	430/	C-4500	C-6307	200	C-4408	C-4409	C-4509
		Тор	Тор	6-4	6-4	6-4	6-4	6-4	9-9	C-8200	6-4	C-4	D-4
F ormamide	HCONH ₂												
Formic acid 10%	НСООН	•											•
Formic acid 85%	НСООН												•
Freon 12, Frigen 12, Arcton 12	CCI ₂ F ₂												•
Freon 22, Frigen 22, Arcton 22	CHF ₂ CI												•
Fuel oil													•
G enerator gas		•										•	•
Glacial acetic acid	CH₃COOH												
Glycerol	(CH ₂ OH) ₂ CHOH	•											•
H eating oil		•											•
Heptane	C ₇ H ₁₆												
Hydraulic oil (mineral)		•											•
Hydraulic oil (phosphate ester type)													
Hydraulic oil (glycol based)		•											
Hydrazine hydrate	(NH ₂) ₂ H ₂ O												
Hydrochloric acid 20%	НСІ												
Hydrochloric acid 37%	HCI												
Hydrofluoric acid 10%	HF												
Hydrofluoric acid 40%	HF												
Hydrogen	H_2	•											
Hydrogen chloride (dry)	НСІ	•											•
Hydrogen peroxide (up to 6% by weight)	H ₂ O ₂	•											
Isooctane (2, 2, 4 –trimethylpentan)	$(CH_3)_3CCH_2CH(CH_3)_2$	•											•
Isopropyl alcohol	(CH ₃) ₂ CHOH	•											•
Kerosene		•											•
Lactic acid 50%	СН₃СНОН СООН	•											•
Lead acetate (sugar of lead)	(CH ₃ COO) ₂ PB	•											•
Lead arsenate	Pb ₃ (AsO ₄) ₂	•											
Lime water	Ca(OH) ₂	•											
Linseed oil		•											
Lubricating oil (see mineral oils)													
Magnesium sulfate	$MgSO_4$	•										•	•
Malic acid	H00C-CH0H-CH ₂ -C00H	•											
M.E.K. (2-butanone)	CH₃COC₂H₅												
Methane	CH ₄	•											
Methyl alcohol (methanol)	CH₃OH			•		•							
Methyl chloride	CH ₃ CI												
Methylene chloride	CH ₂ CI ₂												
Mineral oil - ASTM Oil No. 1		•									•		
Mineral oil - ASTM Oil No. 3				•			•						
Monochlormethane	CH ₃ CI												ī
	<u> </u>												_



The recommendations given here are intended to be an aid in the selection of the suitable gasket quality. It is not possible to provide a warranty because the function and durability of the products depend largely a number of factors over which the manufacturer has no influence. Should there be special approval regulations, these have to be complied with.

The nomenclature of the media corresponds to the IUPAC (German nomenclature commission): e.g. chemical compounds which are written with Ae are changed to E and can be found under this letter in the alphabet.

■ Resistant* ■ Condit. recommended ▲ Not recommended

Medium	Chemical formula		000				3			Ga	sket	mate	erial
		Top-sil-ML 1	Top-graph 2000				C-4430/4433						
		-/!S-()-gra	C-4106	C-4300	C-4400	1430/	C-4500	C-6307	C-8200	C-4408	C-4409	C-4509
		Тор	<i>Top</i>	<i>C</i> -4	9-5	3-0	<i>C-4</i>	C-4	<u></u>				
Naphtha													
Natural gas		•											
Nitric acid 20%	HNO ₃	A											
Nitric acid 40%	HNO ₃												
Nitric acid 96%	HNO ₃	A											
Nitrobenzene	C ₆ H ₅ NO ₂												
Nitrogen	N ₂	•											•
Octane	C ₈ H ₁₈												
Oleic acid	C ₁₇ H ₃₃ COOH												
Oleum (fuming sulfuric acid))	H_2SO_4 with free SO_3												
Oxalic acid	(COOH) ₂												
Oxygen (check local regulations for use)	02				•	•							
Palmitic acid	C ₁₅ H ₃₁ C00H												
Paraffin (kerosene)													
Pentane	C ₅ H ₁₂												
Perchlorethylene	C_2CI_4												
Petrol (fuel)													
Petroleum													
Petroleum ether													
Phenol	C ₆ H ₅ OH												
Phosphoric acid (all concentrations)	H_3PO_4												
Phthalic acid	$C_6H_4(COOH)_2$												
Potassium acetate	CH₃COOK	•											
Potassium carbonate	K_2CO_3												
Potassium chlorate	KCIO ₃												
Potassium chloride	KCI												
Potassium chromium sulfate	KCr(SO ₄) ₂ · 12H ₂ O												•
Potassium cyanide	KCN	•											•
Potassium dichromate	$K_2Cr_2O_7$												•
Potassium hydroxide	КОН												•
Potassium hypochlorite (eau de Javelle)	KOCI												•
Potassium iodide	KJ												•
Potassium nitrate (salpetre)	KNO ₃												
Potassium permanganate	KMnO₄	•											
Propane	C_3H_8	•											
Pyridine	C_5H_5N												
Rapeseed oil						•	•	•	•	•			•
R134a	CH ₂ FCF ₃												
S alicylic acid	C ₆ H₄(OH)COOH	•			•		•	•	•	•	•	•	•
Salt (rock salt)	NaCl				•	•	•	•	•		•		•
Sea water			•			•	•	•					
Silicone oil		•			•	•	•	•	•	•	•	•	
Skydrol 500		<u> </u>	<u> </u>	<u> </u>	<u> </u>		_	_		_	<u> </u>	<u> </u>	
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* Resistant means: Suitable for the appropriate use as a compressed gasket between flange surfaces.

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Certified according to DIN EN ISO 9001:2000

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Medium Chemical formula			http://www.klinger-gmbh.de															
Soap Na ₃ CO ₃ Sodium aluminate Na ₃ AO ₃ Sodium Individe Na ₄ AO ₃ Sodium Individe (Satt) NaHOO ₃ Sodium Individe (Satt) NaCI Sodium Individe (Satt) Na ₂ SO ₄ K ₂ SIO ₃ Sodium Individe (Satt) Na ₂ SO ₄ K ₂ SIO ₃ Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Statut (Satt) (Satt) (Satth (Satt) (Satth (Satt) (Satth (Satt) (Satth (Satt) (Satt) (Satth (Satt) (Medium	Chemical formula	900							Gasket materia								
Soap Na ₃ CO ₃ Sodium aluminate Na ₃ AO ₃ Sodium Individe Na ₄ AO ₃ Sodium Individe (Satt) NaHOO ₃ Sodium Individe (Satt) NaCI Sodium Individe (Satt) Na ₂ SO ₄ K ₂ SIO ₃ Sodium Individe (Satt) Na ₂ SO ₄ K ₂ SIO ₃ Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Statut (Satt) (Satt) (Satth (Satt) (Satth (Satt) (Satth (Satt) (Satth (Satt) (Satt) (Satth (Satt) (ML 1	n 20				4433										
Soap Na ₃ CO ₃ Sodium aluminate Na ₃ AO ₃ Sodium Individe Na ₄ AO ₃ Sodium Individe (Satt) NaHOO ₃ Sodium Individe (Satt) NaCI Sodium Individe (Satt) Na ₂ SO ₄ K ₂ SIO ₃ Sodium Individe (Satt) Na ₂ SO ₄ K ₂ SIO ₃ Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Stacth (C _C H ₁₀ O ₂) _a Statut (Satt) (Satt) (Satth (Satt) (Satth (Satt) (Satth (Satt) (Satth (Satt) (Satt) (Satth (Satt) (I-lis-	-grap	901	300	400	430/	200	307	200	408	409	209				
Schap NBa2COa Sodium aluminate NBa4COa Sodium Indrogenearbonate NBa4COa Sodium Indrogenearbonate NBA4COa Sodium Indrogenearbonate NBABCOa Sodium Indrogenearbonate NBACOB Sodium Indrogenearbonate NBACOB Sodium Indrogenearbonate NBACOB Sodium Indrogenearbonate NBACOB Sodium Sulfide NBACOB Sodium sulfide NBACOB Sodium sulfide NBaSOB Spirit Starch (CcHroOglo)a Steam (temperature limit see pT-diagram) HbQ			Тор-	Top-	6-4	C-4	C-4	C-4	C-4	9-0	C-8,	C-4	C-4	C-4				
Sodium aluminate Na ₃ AlO ₂ Sodium hydrogenaabonate NaHCO ₂ Sodium hydrogensulifile NaHSO ₂ Sodium chloride (Salt) NaCl Sodium chloride (Salt) NaCl Sodium hydroxide NaOH Sodium silicate (water-glass) Na ₂ SiO ₃ K ₅ SiO ₂ Sodium sultide Na ₂ SO ₃ K ₅ SiO ₂ Sodium sultide Na ₂ SO Sodium sultide Na ₂ SO Sodium sultide Na ₂ SO Spiril Starch Starch (C _C H ₁₀ O ₂) _n Stearic acid C _T H ₂₉ COOH Stearic acid C _T H ₂₉ COOH Stearic acid So Sulfuric acid 20% H ₂ SO ₄ Sulfuric acid 50 % H ₂ SO ₄ Sulfuric acid 50 % H ₂ SO ₄ Sulfuric acid 50 % H ₂ SO ₄ Sulfuric acid 60% H ₂ SO ₄ Taratic acid (CHOHCOOH) ₂ Test	S oap				•				•		•	•						
Sodium hydrogensulfile	Soda (sodium carbonate)	Na_2CO_3																
Sodium hydrogensulfite	Sodium aluminate	Na ₃ AIO ₃	•															
Sodium cyanide	Sodium hydrogencarbonate	NaHCO₃	•															
Sodium cyanide NaCN Sodium hydroxide NaOH Sodium silicate (water-glass) $Na_2SO_3/S_1SO_3/S_2SO_3$ Sodium sultate Na_2SO_3 Sodium sultate Na_2SO_3 Sodium sultate Na_2SO_3 Sodium sultide Na_2SO_3 Spirit $Social Social Soc$	Sodium hydrogensulfite	NaHSO₃																
Sodium hydroxide NaOH Sodium silicate (water-glass) $Na_2SIO_3K_2SIO_3$ Sodium sulfide Na_2S Sodium sulfide Na_2S Spirit Starch Starch $(C_0H_0O_2)_0$ Steam (temperature limit see pT-diagram) H_2O Stearic acid $C_1PH_{35}COOH$ Sugar Sulfur dioxide Sulfuric acid 20% H_2SO_4 Sulfuric acid 20% H_2SO_4 Sulfuric acid 36% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfurous acid H_2SO_3 Tannic acid $C_70H_{25}O_{46}$ Tar (asphalt) Tartaric acid Tartaric acid $(CHOHCOOH)_2$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) C_10H_2 Town gas Trichlorethylene Town gas Trichlorethylene Trichlorethylene $C_2H_2Cl_4$ Triethanolamine $N(CH_2CH_2OH)_3$ Triugtanue $N(H_2CO)$ Water H_2O Water H_2O Water H_2O Water H_2O <td>Sodium chloride (Salt)</td> <td>NaCl</td> <td></td>	Sodium chloride (Salt)	NaCl																
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sodium cyanide	NaCN																
Sodium sulfide Na_2S Spirit Starch $(C_0H_{10}O_3)_n$ Steam (temperature limit see pT-diagram) H_2O Steam (temperature limit see pT-diagram) Stearic acid $C_{17}H_{38}COOH$ Stearic acid Sugar Sulfur idioxide SO_2 Sulfuric acid 20% H_2SO_4 Sulfuric acid 20% H_2SO_4 A A A Sulfuric acid 96% H_2SO_4 A A A A Sulfurous acid H_2SO_4 A	Sodium hydroxide	NaOH																
Solium sulfide NayS Spirit Cophino Syla Steam (temperature limit see pT-diagram) H_2O Stearic acid $C_{17}H_{35}COOH$ Suga Sulfur dioxide Sulfur acid 20% H_2SO_4 Sulfuric acid 20% H_2SO_4 Sulfuric acid 30% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfurious acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) Tartaric acid Tartaric acid (CHOHCOOH)2 Tetrachlorethane $C_2H_2Cl_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toulene $C_8H_5CH_3$ Transformer oil Trichlorethylene Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $N(CH_2CH_2OH)_3$ Water H_2O Water H_2O Water H_2O Water-glass $N_2SiO_3K_2SiO_3$ White Spirit	Sodium silicate (water-glass)	$Na_2SiO_3K_2SiO_3$																
Spirit Starch ($C_8H_{10}O_5I_n$) Steam (temperature limit see pT-diagram) H_2O Stearic acid $C_{17}H_{35}C00H$ Sugar Sulfur dioxide SO_2 Sulfuric acid 20% H_2SO_4 Sulfuric acid 50% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfurio acid 60% H_2SO_4 Tannic acid $C_7H_{12}CO_6$ Tar (asphalt) Tartaric acid (CHOHCOOH) ₂ Tetrachlorethane $C_2H_2CI_4$ Tetralin (1, 2, 3, 4-tetrahydronaphtalene) $C_{17}H_{12}$ Toluene $C_8H_5CH_3$ Town gas Transformer oil Trichtanolamine $N(CH_2CH_2OH_3)$ Triethanolamine $N(CH_2CH_2OH_3)$ Triethanolamine $N(CH_2CH_2OH_3)$ Triethanolamine $N(CH_2CH_2OH_3)$ Triethanolamine $N(CH_2CH_2OH_3)$ Water H_2O Water H_2O Water-glass $N_{2}SiO_3K_2SiO_3$ White Spirit	Sodium sulfate	Na ₂ SO ₄																
Starch $(C_0H_{10}O_3I_n)$ Steam (temperature limit see pT-diagram) H_2O Stearic acid $C_{17}H_{35}COOH$ Sugar Sulfur dioxide Sulfuric acid 20% H_2SO_4 Sulfuric acid 50% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfuric acid $C_{76}H_{52}O_{46}$ Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) Tartaric acid Tetrachiorethane $C_2H_2CI_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Town gas Town gas Transformer oil Trichlorethylene Trichlorethylene C_2HCI_3 Trichlorethylene C_2HCI_3 Triupentine $I_{10}I_$	Sodium sulfide	Na ₂ S																
Steam (temperature limit see pT-diagram) H_2O Stearic acid $C_{17}H_{35}COOH$ Sugar Suffur dioxide Sulfur dioxide SO_2 Sulfuric acid 20% H_2SO_4 Sulfuric acid 50% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfurous acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) Tartaric acid Tartaric acid $(CHOHCOOH)_2$ Tetrathorethane $C_2H_2Cl_4$ Tetralin $(1, 2, 3, 4$ -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas Transformer oil Transformer oil Triebhanolamine $N(CH_2CH_2OH)_3$ Turpentine Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $N_2SiO_3K_2SiO_3$ White Spirit	Spirit																	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Starch	$(C_6H_{10}O_5)_{n}$																
Sugar SO2 Sulfur dioxide SO_2 Sulfuric acid 20% H_2SO_4 Sulfuric acid 50% H_2SO_4 Sulfuric acid 96% H_2SO_4 Sulfurous acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) $C_{76}H_{52}O_{46}$ Tetrachlorethane $C_2H_2CI_4$ Tetratin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas $C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C$	Steam (temperature limit see pT-diagram)	H ₂ 0	•															
Sulfur dioxide SO_2 Sulfuric acid 20% H_2SO_4 Sulfuric acid 50% H_2SO_4 Sulfuric acid 96% H_2SO_3 Sulfurous acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) Tartaric acid Tartaric acid $(CHOHCOOH)_2$ Tetrachlorethane $C_2H_2CI_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas Tomasformer oil Trichlorethylene C_2HCI_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit	Stearic acid	C ₁₇ H ₃₅ COOH																
Sulfuric acid 20% H_2SO_4 Sulfuric acid 50% H_2SO_4 Sulfuric acid 96% H_2SO_3 Sulfurous acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{66}$ Tar (asphalt) Tartaric acid Tartaric acid $(CHOHCOOH)_2$ Tetrachlorethane $C_2H_2CI_4$ Tetratin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas Transformer oil Trichlorethylene C_2HCI_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $V_{10}V_3$ Urea $V_{10}V_3$ Water $V_{10}V_3$ Water-glass $V_{10}V_3$ White Spirit	Sugar																	
Sulfuric acid 50 % H_2SO_4 Sulfuric acid 96 % H_2SO_3 Sulfurous acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) $C_{76}H_{52}O_{46}$ Tartaric acid $(CHOHCOOH)_2$ Tetrachlorethane $C_2H_2CI_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas $C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C_7C$	Sulfur dioxide	SO ₂																
Sulfuric acid 96 % H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) (CHOHCOOH)2 Tetrachlorethane $C_{2}H_{2}CI_{4}$ Tetralin (1, 2, 3, 4-tetrahydronaphtalene) $C_{10}H_{12}$ Town gas Common second Transformer oil $C_{2}HCI_{3}$ Triethanolamine $N(CH_{2}CH_{2}OH)_{3}$ Turpentine $O(H_{2}CH_{2}OH)_{3}$ Uinyl acetate $O(H_{2}CH_{2}OH)_{3}$ Water $O(H_{2}OH_{2}OH)_{3}$ Water-glass $O(H_{2}OH_{2}OH)_{3}$ White Spirit	Sulfuric acid 20 %	H ₂ SO ₄																
Sulfurous acid H_2SO_3 Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt) \bullet Tartaric acid $(CHOHCOOH)_2$ Tetrachlorethane $C_2H_2CI_4$ Tetralin $(1, 2, 3, 4$ -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas \bullet Transformer oil \bullet Trichlorethylene C_2HCI_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine \bullet Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit	Sulfuric acid 50 %	H ₂ SO ₄																
Tannic acid $C_{76}H_{52}O_{46}$ Tar (asphalt)(CHOHCOOH)2Tartaric acid(CHOHCOOH)2Tetrachlorethane $C_2H_2Cl_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gasTransformer oilTrichlorethylene C_2HCl_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine(NH2)2COVinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit	Sulfuric acid 96 %	H ₂ SO ₄																
Tar (asphalt)(CH0HC00H)2Tetrachlorethane $C_2H_2CI_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas C_2HCI_3 Transformer oil C_2HCI_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $N(H_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit $Na_2SiO_3K_2SiO_3$	Sulfurous acid	H ₂ SO ₃																
Tar (asphalt)(CH0HC00H)2Tetrachlorethane $C_2H_2CI_4$ Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ Toluene $C_6H_5CH_3$ Town gas C_2HCI_3 Transformer oil C_2HCI_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $N(H_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit $Na_2SiO_3K_2SiO_3$	Tannic acid	C ₇₆ H ₅₂ O ₄₆																
Tetrachlorethane $C_2H_2Cl_4$ A A A Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ A A Toluene $C_6H_5CH_3$ A A A Town gas A A A A Transformer oil C_2HCl_3 A A A Trichlorethylene C_2HCl_3 A A A Triethanolamine $N(CH_2CH_2OH)_3$ A A A Turpentine A A A A Urea $(NH_2)_2CO$ A A A Vinyl acetate $CH_3COOC_2H_3$ A A A Water A A A A Water-glass $Na_2SiO_3K_2SiO_3$ A A A White Spirit A A A A	Tar (asphalt)		•															
Tetralin (1, 2, 3, 4 -tetrahydronaphtalene) $C_{10}H_{12}$ \bullet \bullet Toluene $C_6H_5CH_3$ \bullet \bullet \bullet Town gas \bullet \bullet \bullet \bullet Transformer oil \bullet \bullet \bullet \bullet Trichlorethylene C_2HCl_3 \bullet \bullet \bullet Triethanolamine $N(CH_2CH_2OH)_3$ \bullet \bullet \bullet Turpentine \bullet \bullet \bullet \bullet Urea $(NH_2)_2CO$ \bullet \bullet \bullet Vinyl acetate $CH_3COOC_2H_3$ \bullet \bullet \bullet Water H_2O \bullet \bullet \bullet Water-glass $Na_2SiO_3K_2SiO_3$ \bullet \bullet \bullet White Spirit \bullet \bullet \bullet \bullet	Tartaric acid	(CH0HC00H) ₂																
Toluene $C_6H_5CH_3$ Town gas•••••••••••••••••••••••••••••••••	Tetrachlorethane	$C_2H_2CI_4$																
Town gasC2HCl3Trichlorethylene C_2HCl_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $N(CH_2CH_2OH)_3$ Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit $Na_2SiO_3K_2SiO_3$	Tetralin (1, 2, 3, 4 -tetrahydronaphtalene)	C ₁₀ H ₁₂																
Transformer oil C_2HCl_3 Trichlorethylene C_2HCl_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $(NH_2)_2CO$ Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit O	Toluene	$C_6H_5CH_3$	•															
Trichlorethylene C_2HCl_3 Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine $(NH_2)_2CO$ Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit	Town gas																	
Triethanolamine $N(CH_2CH_2OH)_3$ Turpentine \bullet Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit \bullet	Transformer oil																	
Turpentine(NH2)2C0Urea $(NH_2)2C0$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit O	Trichlorethylene	C ₂ HCl ₃																
Urea $(NH_2)_2CO$ Vinyl acetate $CH_3COOC_2H_3$ Water H_2O Water-glass $Na_2SiO_3K_2SiO_3$ White Spirit \bullet	Triethanolamine	$N(CH_2CH_2OH)_3$																
Vinyl acetate $CH_3COOC_2H_3$ \blacksquare \blacksquare \blacksquare Water H_2O \blacksquare \blacksquare Water-glass $Na_2SiO_3K_2SiO_3$ \blacksquare \blacksquare White Spirit \blacksquare \blacksquare \blacksquare	Turpentine																	
Water H_2O \bullet \bullet \bullet Water-glass $Na_2SiO_3K_2SiO_3$ \bullet \bullet \bullet \bullet White Spirit \bullet \bullet \bullet \bullet \bullet	U rea	(NH ₂) ₂ CO																
Water-glass $Na_2SiO_3K_2SiO_3$ \bullet \bullet \bullet \bullet White Spirit \bullet \bullet \bullet \bullet \bullet	Vinyl acetate	$CH_3COOC_2H_3$				•	•		•		•	•		•				
White Spirit	Water	H ₂ 0		•	•	•	•		•	•	•	•						
	Water-glass	$Na_2SiO_3K_2SiO_3$		•	•	•	•		•		•	•						
X ylene $C_6H_4(CH_3)_2$ \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet	White Spirit				•	•	•		•		•	•						
	X ylene	$C_6H_4(CH_3)_2$	•						•					•				

* Resistant means: Suitable for the appropriate use as a compressed gasket between flange surfaces.