

# CHEMICAL RESISTANCE OF INTERNAL LININGS FOR TANKS, VESSELS AND PIPELINES

This overview will help you with your decision for the proper selection of internal linings for tanks, containers and pipes.



#### INFORMATION

Reliable and economic corrosion protection against chemical attack already starts with the planning and selection of the right protective system for the exposed surfaces. Sherwin-Williams Coatings Deutschland GmbH provide support for decision making.

This resistance list provides information about the resistance of selected protective paint systems to a large number of media based on long-term testing. It serves at the same time as proof of the experience and capability of Sherwin-Williams - your expert partner for corrosion protection caused by media stresses.

#### **TESTING PROCEDURE**

The following results were obtained by placing coated test plates in the respective chemical (DIN EN ISO 2812-1).

The test plates are made of sheet steel,  $80 \times 40 \times 4$  mm by size and blast-cleaned to surface degree Sa 2½ in accordance with ISO 8501-1 before application of the protective paint systems.

The coated test plates are stored for at least 7 days at +20  $^{\circ}\mathrm{C}$  before testing.

Testing usually takes place over a period of 60 months.

Intermediate inspections take place at defined, regular intervals.

The effect of the test media on the respective protective paint system in vapour and liquid phase is assessed directly after stressing.

Any percentage figures given for the test media refer – unless stated otherwise - to aqueous solutions.



#### RESULTS

- ++ permanently resistant (i.e. tested for at least 60 months = 5 years)
- 12+ positively endured test period in months (here the example for 12 months)
- 12- positively endured test period in months (here the example of 12 months) - no longer resistant after that, however
- **0** not resistant

### PROTECTIVE COATING SYSTEMS

The test results documented hereafter were achieved with the following protective paint systems

Dura-Plate® 3326 EG-H	Dura-Plate® 2807 HS
2-3 x Dura-Plate 3326 EG-H	1 x Dura-Plate 2807 HS
Dry film thickness at least 500 μm	Dry film thickness at least 500 µm
<b>Dura-Plate® 2807 HS A</b>	<b>Dura-Plate® 138 A</b>
1 x Dura-Plate 2807 HS A	1 x Dura-Plate 138 A
Dry film thickness at least 500 µm	Dry film thickness at least 500 µm
<b>Dura-Plate® 299 Airless</b>	<b>Dura-Plate® 146 DW</b>
2 x Dura-Plate 299 Airless	1 x Dura-Plate 146 DW
Dry film thickness at least 500 µm	Dry film thickness at least 500 µm

Higher dry film thicknesses may be required if steel surfaces are badly corroded and pitted.

CONTENTS / MEDIA GROUPS TESTED	PAGE	
Acids:	4	
Alkalis:	5	
Chemicals/salts:	6	
<b>Organic media:</b> (e.g. solvents, softeners, oils, greases, mineral oil products)	8	
Food:	17	

#### IMPORTANT NOTICE

The information, and, in particular, the recommendations relating to the application and end-use of Sherwin-Williams products, are given in good faith based on Sherwin-Williams's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sherwin-Williams's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sherwin-Williams reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. The most recent product data sheet applies. This can be requested from us or is available to download at www.protectiveeu.sherwin-williams.com. Please check availability of local product data sheet at your local website. In cases of doubt the German text is valid.

Sherwin-Williams Coatings Deutschland GmbH

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1.16	2-Ethylhexanoic acid		+20 °C		++				
.8	acetic acid	0,10 %	+20 °C			++			
.9	acetic acid	0,50 %	+20 °C		36-				
.10	acetic acid	1%	+20 °C		3-	++		12+	_
.11	acetic acid	2 %	+20 °C	12-	1-	48+		12+	3-
17	acetic acid	2 %	+40 °C	6-		6-		12-	1-
1.1.5	acetic acid	5 % 10 %	+20 °C	z	0	0-	0	12-	0
14	acetic acid	96 %	+20 °C	3-	0	0	0	0	0
54	citric acid	5.00 %	+20 °C			0			1_
22	coconut fatty acid, destilled (Prifac 7901)	5,00 /0	+40 °C	1-	48-	36-			1
23	coconut fatty acid, destilled (Prifac 7901)		+70 °C	0	0	1-			
24	coconut fatty acid, destilled , gehärtet (Prifac 5901)		+40 °C	1-	++	++			++
25	coconut fatty acid, destilled , gehärtet (Prifac 5901)		+70 °C	0	0	1-			0
17	fatty acid mixture (1 %) in soy bean oil		+40 °C	24-	++	++			
18	fatty acid mixture (1 %) in soy bean oil		+70 °C	3-	12-	12-			
9	fatty acid, chain length C8 (Prifac 2901)	98 %	+40 °C	0	0	3-			
20	fatty acid, chain length C8 (Prifac 2901)	98 %	+70 °C	0	0	0			0
1	fatty acid, unsaturated, chain length C12-C18		+20 °C	0	++	++			
5	formic acid, pH 2	0,50 %	+40 °C	3-	0	12-			
ļ.	formic acid, pH 3-4	0,10 %	+40 °C	12-	36-	++		++	
2	formic acid, pH 4	0,05 %	+20 °C	++	++	++			
5	formic acid, pH 4	0,05 %	+40 °C	12-	36-	++			
5	formic acid, pH=1-2	1%	+20 °C	-	_	6-		12+	
· _	formic acid, pH=1-2	1%	+40 °C	1-	0	5-			
8	hydrochloric acid	10.00	+20 °C	++	~	++		++	1
9	nydrochloric acid	10 %	+20 °C	0	6-	36-	0	12-	1-
11	hydrochloric acid	20 %	+20 °C	0	0	1	0	0	0
+1 12	hydrochloric acid 5% alternating sodium hydrovide 5%	33 70	+20°C	48-	0	24.			
6	lactic acid, pure	90 %	+20 °C	-0-		0		0	
27	monochloracetic acid	80 %	+20 °C.	0	0	0	0	0	0
35	nitric acid	0,50 %	+20 °C	-	++	++			-
36	nitric acid	1%	+20 °C		++	++		++	
37	nitric acid	5 %	+20 °C		0	36-		12-	
28	oleic acid (Priolene 6907)		+40 °C	3-	++	++			
29	oleic acid (Priolene 6907)		+70 °C	1-	3-	3-			
30	palm kernel fatty acid, destilled (Prifac 7908)		+40 °C	3-	++	++			
31	palm kernel fatty acid, destilled (Prifac 7908)		+70 °C	1-	1-	1-			
32	phosphoric acid	5 %	+20 °C			++		12+	
33	phosphoric acid	10 %	+20 °C			12+			
34	phosphoric acid	52 %	+20 °C		0	1-		0	
13	sulturic acid	1%	+20 °C	++	12-	10			
44	sulfuric acid	2 %	+20 °C			48-			
15 16	sulfuric acid	5%	+20 °C	241	5-	48-			
40	sulturic acid	5%	+20 °C	24+	0	48-	7	12+	1
+7 12	sulfuric acid	20 %	+20 °C	12+	0	- 30-	3-	12+	
+0 51	sulfurous acid	0.25 %	+20 °C	12+	12+	0		0	0
्र 5 र	sulfurous acid	0.50 %	+20 °C	12+	12+			12+	12+
52	sulfurous acid. pH 2	0.40 %	+20 °C	12+	12+				12.1
.50	sulfurous acid, pH 2.5	0,20 %	+20 °C	12+	12+				
.49	sulfurous acid, pH 3	0,10 %	+20 °C	12+	12+				
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12       aluminium hydroxide sludge (densitity 1.4)       +50 °C       1       1       1       12         33       ammonia       1%       +20 °C       24-       24-       36-       12-         15       ammonia       2%       +20 °C       24-       12-       36-       1-<
13       ammonia       1%       +20 °C       24-       24-       24-       24-       12-       36-       24-       12-         14       ammonia       1%       +50 °C       1-       12-       36-       1-       10       1-       12-       36-       1-       12-       36-       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-       10       1-
14       ammonia       1 %       +20 °C       12       36-       12       36-       12       36-       12       36-       12       12       36-       12       12       36-       12       12       36-       12       12       36-       12       12       36-       12 <t< td=""></t<>
53       ammonia       2 %       +20 °C       24       12       36-       72       12- <t< td=""></t<>
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an infinitial       3 %       1.30 c       1
30       ammonia       10 %       +50 °C       12       0       24       0       24       0         10       ammonia       10 %       +50 °C       1       0       0       1         110       calcium hydroxide       3 %       +20 °C       ++       <
10 %       10 %
112       potassium hydroxide       2 %       +20 °C       ++       ++       ++       +       11
Discussion hydroxide       10 % +20 °C       ++       ++       12 +         13 potassium hydroxide       10 % +50 °C       -       ++       12 +         14 potassium hydroxide       10 % +50 °C       -       ++       12 +         15 potassium hydroxide       10 % +60 °C       -       ++       12 +         16 potassium hydroxide       10 % +70 °C       1-       1-       24-       0         17 potassium hydroxide       30 % +20 °C       1-       ++       12 +       12 +         18 potassium hydroxide       50 % +20 °C       1-       ++       12 +       12 +         19 potassium hydroxide       50 % +50 °C       -       ++       6-       -         20 potassium hydroxide       50 % +70 °C       1-       12 +       12 +       -         21 potassium hydroxide       1% +40 °C       1+       ++       4+       ++       ++         22 sodium hydroxide       1% +40 °C       1+       ++       12 +       12 +       12 +         22 sodium hydroxide       1% +60 °C       1-       12 +       12 +       12 +       12 +         23 sodium hydroxide       2 % +20 °C       ++       ++       ++       ++       ++
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botassium hydroxide       10 % +60 °C       I       I++       I       I         potassium hydroxide       10 % +70 °C       1-       1-       24-       I       I         10 potassium hydroxide       30 % +20 °C       1-       I++       I++       I2+       12+       12+         11 potassium hydroxide       50 % +20 °C       1-       I++       I++       I       I2+       12+         12 potassium hydroxide       50 % +50 °C       I       I++       I4+       I6-       I2-         12 potassium hydroxide       50 % +70 °C       I-       I2+       I2+       I2+       I2+         20 potassium hydroxide       1 % +20 °C       I++       I4+       I6-       I2-       I2-       I2-         21 potassium hydroxide       1 % +20 °C       I++       I2+       I2+       I2+       I2+       I2+       I2+         22 sodium hydroxide       1 % +20 °C       I++       I4+       I4+ <t< td=""></t<>
116       potassium hydroxide       10 % +70 °C       1-       1-       24-       12-         117       potassium hydroxide       30 % +20 °C       1-       ++       ++       12+       12+         118       potassium hydroxide       50 % +20 °C       1-       ++       ++       12-       12-         119       potassium hydroxide       50 % +50 °C       1-       ++       ++       6-         120       potassium hydroxide       50 % +70 °C       1-       12-       12-       12-         121       potassium hydroxide       1% +20 °C       ++       14+       14+       ++       14+         122       sodium hydroxide       1% +20 °C       1-       12-       12-       12-         122       sodium hydroxide       1% +40 °C       1+       14+       14+       14+         123       sodium hydroxide       1% +40 °C       1+       12-       12-       12-         125       sodium hydroxide       2% +20 °C       1+       14+       14+       14+         120       sodium hydroxide       3% +20 °C       1+       14+       14+       14+         129       sodium hydroxide       10 % +20 °C
17       potassium hydroxide       30 %       +20 °C       1-       ++       ++       12+<
18       potassium hydroxide       50 %       +20 °C       I       ++       ++       I       I       I         19       potassium hydroxide       50 %       +50 °C       I       I       ++       I       I       I         20       potassium hydroxide       50 %       +60 °C       I       I++       I       I       I         21       potassium hydroxide       50 %       +70 °C       I-       12-       12-       I       I         22       sodium hydroxide       1%       +20 °C       I++       I       I++       I++<
19       potassium hydroxide       50 %       +50 °C       I       I       III       III       III       IIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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21       potassium hydroxide       50 %       +70 °C       1-       12-       12-       14
22sodium hydroxide1% $\pm 20 ^{\circ}$ C $\pm +$ $\pm +$ $36+$ $\pm +$ $\pm +$ 23sodium hydroxide1% $\pm 40 ^{\circ}$ C $\pm +$ <
23       sodium hydroxide       1%       +40 °C       ++ <td< td=""></td<>
24       sodium hydroxide       1%       +60 °C       6-       12-
25       sodium hydroxide       2 %       +20 °C       ++ <t< td=""></t<>
26       sodium hydroxide       2 %       +80 °C       1-       1-       12-       12-       12-         27       sodium hydroxide       3 %       +20 °C       ++       ++       ++       ++       12-
27       sodium hydroxide       3 %       +20 °C       ++       ++       ++       -       -         28       sodium hydroxide       5 %       +20 °C       ++ <t< td=""></t<>
28       sodium hydroxide       5 %       +20 °C       ++ <t< td=""></t<>
29 sodium hydroxide       10 %       +20 °C       ++
301 sodium hydroxide       10 %       +40 °C       36-       12-       Image: Constraint of the state of the st
10 %       +50 °C       ++
3.32 sodium hydroxide     10 %     +60 °C     ++     ++       3.33 sodium hydroxide     10 %     +70 °C     6-     24-       3.4 sodium hydroxide     10 %     +80 °C     3-     -       3.5 sodium hydroxide     20 %     +20 °C     0-     ++
3.55 sodium hydroxide         10 %         +70 °C         6-         24-         24-           3.4 sodium hydroxide         10 %         +80 °C         3-
35 sodium hydroxide         10 %         10 %         3-1           35 sodium hydroxide         20 %         +20 %         0         +1         +
$\frac{20\%}{120\%} + \frac{20\%}{120\%} = \frac{20\%}{120\%} + \frac{10\%}{10\%} = \frac{11\%}{10\%} + \frac{10\%}{10\%} + \frac{10\%}{10\%} + \frac{10\%}{10\%} + \frac{10\%}{10\%} + \frac{10\%}{10\%}$
20 /s odium hydroxide         20 /s + 50 °C         ++         12           237 sodium hydroxide         20 % + 50 °C         ++         12
38 sodium hydroxide 20 % +60 °C 0 48+ 12- 1-
39 sodium hvdroxide 30 % +20 °C 6- ++ ++
.40 sodium hydroxide 30 % +70 °C 3- 12+
.41 sodium hydroxide 30 % +80 °C 12-
.42 sodium hydroxide 45 % +20 °C ++ ++
.43 sodium hydroxide 45 % +70 °C 12-
.44 sodium hydroxide 50 % +20 °C 36- ++ ++ ++
:45 sodium hydroxide 50 % +50 °C 12- ++
.46 sodium hydroxide 50 % +60 °C 24+
.47 sodium hydroxide 50 % +70 °C 6- 24- 24-
.48 sodium hydroxide 50 % +80 °C 12-

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33.         ammonum caboata         40         w	3.31	aluminium hydroxide sludge		+50 °C			++																																																																																																																																																		
34         amonum chloride         5 %	3.33	ammonium carbonate	40 %	+50 °C	++	0	++																																																																																																																																																		
bit         bit<	3.34	ammonium chloride	5 %	+20 °C		++																																																																																																																																																			
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33         amonum nitrate pl=10         +20 °C         +4         N         N         N           33         amonum nitrate pl=10         +20 °C         24         N         N         N           340         amonum sulfate         10 %         +20 °C         24         N         N         N           340         amonum sulfate         10 %         +20 °C         24         24         N         N           343         amonum sulfate         2 %         +50 °C         24         24         N         N         N           344         anonum sulfate         2 %         +20 °C         +4         14         N         N         N           344         acloum choride         2 %         +20 °C         +4         14         14         N         N           345         berax         deposit water, deposition Wintershall         +50 °C         +1         N         N         N         N           346         deposit water, deposition Wintershall         +50 °C         +4         14         14         14         14         14         14         14         14         14         14         14         14         14         14	3.32	ammonium hydrogensulfite (leach)	10 70	+20 °C	48-	12-	++																																																																																																																																																		
33         amonum sulfate         1	3.37	ammonium nitrate	28 %	+20 °C	++		++		++																																																																																																																																																
basic         basic <th< td=""><td>3.38</td><td>ammonium nitrate pH=10</td><td>E 0/</td><td>+20 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></th<>	3.38	ammonium nitrate pH=10	E 0/	+20 °C	++		++																																																																																																																																																		
14.1       amonum sulfate       10 %       440 °C       24.1       with etc.       with etc.         14.2       amonum sulfate       2 %       450 °C       2       24       24       24         14.3       borax       5 %       420 °C       14       14       24       24       14       24 <td>3.39 3.40</td> <td>amonium sulfate</td> <td>5 %</td> <td>+20 °C</td> <td>++</td> <td></td> <td>++</td> <td></td> <td>++</td> <td>++</td>	3.39 3.40	amonium sulfate	5 %	+20 °C	++		++		++	++																																																																																																																																															
142       amonum sulficie       2 %       +50 °C       W       20       2       44       0       W	3.41	amonium sulfate	10 %	+40 °C	24-		++		++	++																																																																																																																																															
143       borax       5 %       +20 °C       iv       ++       ++       ++       ++         144       calcium choride       20 %       +40 °C       iv       iv<	3.42	amonium sulfide	2 %	+50 °C		24-	24-																																																																																																																																																		
141       Calcum Drombe       52 %       +20 °C       ++ <td< td=""><td>3.43</td><td>borax</td><td>5 %</td><td>+20 °C</td><td></td><td>++</td><td>++</td><td></td><td></td><td></td></td<>	3.43	borax	5 %	+20 °C		++	++																																																																																																																																																		
Bound number         Bound and another         Bound	3.44	calcium bromide	52 % 20 %	+20 °C	++	++	++		++																																																																																																																																																
585       copper suffare       5 %       +20 °C       ++       ++       ++           666       deposit water, deposition Wintershall       +50 °C       ++       ++       ++           676       deposit water, deposition Wintershall       +80 °C       ++       ++       ++            670       deposit water, e.g. BEB, DEA, Preussag.       +70 °C       ++       ++       ++            570       ferric chloride       5 %       +20 °C       ++       ++             571       ferric chloride       5 %       +20 °C       ++       ++             575       ferric sulfate       5 %       +20 °C       ++       ++       + </td <td>3.46</td> <td>chlorinated lime</td> <td>10 %</td> <td>+20 °C</td> <td>++</td> <td></td> <td>++</td> <td></td> <td>++</td> <td></td>	3.46	chlorinated lime	10 %	+20 °C	++		++		++																																																																																																																																																
66       deposit water, deposition Wintershall       +50 °C       ++       N       ++       N       N         667       deposit water, deposition Wintershall       +80 °C       ++       N       N       N         668       deposit water, e.g. BEB, DEA, Preussag       +50 °C       N       N       N       N       N       N         570       deposit water, e.g. BEB, DEA, Preussag       +20 °C       N       <	8.65	copper sulfate	5 %	+20 °C	++	++	++																																																																																																																																																		
167         depositivater, deposition Wintershall         +10°C         ++         I         ++         I         I           168         depositivater, e.g. BEB, DEA, Preussag         +50°C         I         I         ++         I         I           170         depositivater, e.g. BEB, DEA, Preussag.         +70°C         I         I++         I         I           180         ferric chloride         10%         +20°C         I++         I         I         I           181         ferric chloride         5%         +20°C         I++         I         I         I           185         ferric chloride         5%         +20°C         I++         I	5.66	deposit water, deposition Wintershall		+50 °C	++		++																																																																																																																																																		
No.         Support Nator, e.g. BEB, DEA, Preussag.         170         171	6.67	deposit water, deposition Wintershall deposit water, deposition Wintershall		+/0 °C	++		++																																																																																																																																																		
370       deposit water, e.g. BEB, DEA, Preussag,       +70 °C       For       +11       V	5.69	deposit water, e.g. BEB, DEA, Preussag		+50 °C			++																																																																																																																																																		
49ferric chloride5 %+20 °C*+*+*%%	.70	deposit water, e.g. BEB, DEA, Preussag,		+70 °C			++																																																																																																																																																		
50         Ferric chloride         10 %         +20 °C         ++         ++         + </td <td>49</td> <td>ferric chloride</td> <td>5 %</td> <td>+20 °C</td> <td></td> <td>++</td> <td></td> <td></td> <td></td> <td></td>	49	ferric chloride	5 %	+20 °C		++																																																																																																																																																			
as         leftic sulfate         3 me         42 °C         44 <td>50</td> <td>ferric chloride</td> <td>10 %</td> <td>+20 °C</td> <td>++</td> <td></td> <td>++</td> <td></td> <td></td> <td></td>	50	ferric chloride	10 %	+20 °C	++		++																																																																																																																																																		
Statustice         Statust	53 54	ferric sulfate (Quickfloc)	5 % saturated	+20 °C	++	++	++																																																																																																																																																		
47       ferrous chloride (Ferrofioc)       saturated       +20 °C       ++ <t< td=""><td>55</td><td>ferric sulfate (Quickfloc)</td><td>saturated</td><td>+50 °C</td><td>3+</td><td></td><td>3+</td><td></td><td></td><td></td></t<>	55	ferric sulfate (Quickfloc)	saturated	+50 °C	3+		3+																																																																																																																																																		
48       ferrous chloride (Ferrolloc)       saturated       +50 °C       3+       3+       3+       1+       1+       1       1         51       ferrous chloride / sulfate (Ferrifloc)       saturated       +50 °C       3+ <td>.47</td> <td>ferrous chloride (Ferrofloc)</td> <td>saturated</td> <td>+20 °C</td> <td>++</td> <td>++</td> <td>++</td> <td></td> <td></td> <td></td>	.47	ferrous chloride (Ferrofloc)	saturated	+20 °C	++	++	++																																																																																																																																																		
S1       Terrous chloride / sulfate (Ferrificc)       saturated +20 °C       1+       1+       1+       1+         52       ferrous chloride / sulfate (Ferrificc)       saturated +50 °C       3+       3+       3+       3+       1+ <td>48</td> <td>ferrous chloride (Ferrofloc)</td> <td>saturated</td> <td>+50 °C</td> <td>3+</td> <td>3+</td> <td>3+</td> <td></td> <td></td> <td></td>	48	ferrous chloride (Ferrofloc)	saturated	+50 °C	3+	3+	3+																																																																																																																																																		
Bach data         100 and table         100 and tabl	.51	terrous chloride / sulfate (Ferrifloc) ferrous chloride / sulfate (Ferrifloc)	saturated	+20 °C	++	++	++																																																																																																																																																		
20       kraft liquor, pH 1.8       +50 °C       24-       36-       1       1         33       kraft liquor, pH 1.8       +80 °C       3-       6-       1       1         34       kraft liquor, pH 8.5       +50 °C       ++       ++       1       1         35       kraft liquor, pH 8.5       +80 °C       24-       ++       ++       1       1         37       magnesium chloride       5 %       +20 °C       ++ <td< td=""><td>61</td><td>kaolin, suspension pH 6</td><td>Saturated</td><td>+20 °C</td><td>++</td><td>++</td><td>++</td><td></td><td></td><td></td></td<>	61	kaolin, suspension pH 6	Saturated	+20 °C	++	++	++																																																																																																																																																		
33       kraft liquor, pH 1,8       +80 °C       3-       6-       V       V         94       kraft liquor, pH 8,5       +50 °C       ++       ++       V       V         95       kraft liquor, pH 8,5       +80 °C       24-       ++       ++       V       V         95       kraft liquor, pH 8,5       +20 °C       ++       ++       ++       V       V         74       magnesium chloride       15 %       +40 °C       ++	92	kraft liquor, pH 1,8		+50 °C	24-		36-																																																																																																																																																		
44       kraft liquor, pH 8,5       +50 °C       ++	93	kraft liquor, pH 1,8		+80 °C	3-		6-																																																																																																																																																		
30       interlegiol, proc.5       24       11       1       1       1         37       magnesium chloride       5 %       +20 °C       ++ <td< td=""><td>94 95</td><td>kraft liquor, pH 8,5 kraft liquor, pH 8,5</td><td></td><td>+50 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></td<>	94 95	kraft liquor, pH 8,5 kraft liquor, pH 8,5		+50 °C	++		++																																																																																																																																																		
74       magnesium chloride       15 %       +40 °C       ++	73	magnesium chloride	5 %	+20 °C	24	++	++																																																																																																																																																		
89         poly aluminum chloride solution pH 2,6         ++	74	magnesium chloride	15 %	+40 °C	++		++		++	++																																																																																																																																															
300       potassium carbonate (potash)       5 %       +20 °C       ++<	.89	poly aluminium chloride solution pH 2,6	E 0/	+20 °C	++		++																																																																																																																																																		
5.8potassium nitrate5 %+20 °C++++-5.9potassium permanganate5 %+20 °C0006.0potassium sulfate5 %+20 °C0006.0potassium sulfate5 %+20 °C++++++++9seawater, artificial+20 °C++++++++++++9seawater BIOHOCH pH=11+20 °C++++++++++1.4sewage water BIOHOCH pH=11+40 °C++++++11.5sewage water BIOHOCH pH=2.5+20 °C++++111.6sewage water BIOHOCH pH=2.5+40 °C++++111.7sewage water BIOHOCH pH=2.5+40 °C++++111.8sewage water BIOHOCH pH=2.5+40 °C++++111.8sewage water from cockery plant+20 °C++++111.62sewage water from cockery plant+20 °C24+12-111.11sewage water, chemical plant, pH 0.3+20 °C6-6-6-111.12sewage water, chemical plant, pH 0.5+20 °C++++++++1.13sewage water, chemical plant, pH 4,6+20 °C++++++++1.14sewage water, chemical plant, pH 4,6+20 °C++++++++1.15sewage w	.56	potassium carbonate (potasn) potassium dichromate	5 %	+20 °C	++	++	++	++	++	++																																																																																																																																															
59       potassium permanganate       5 % $+20 \circ C$ W       0       V       W       H $++$	.58	potassium nitrate	5 %	+20 °C		++	++																																																																																																																																																		
60potassium sulfate5 %+20 °C++<	.59	potassium permanganate	5 %	+20 °C		0																																																																																																																																																			
100 Subtract a function120 C11111111111111113 sewage water BIOHOCH pH=11 $+20 °C$ $+1$ <td< td=""><td>.60</td><td>potassium sulfate</td><td>5 %</td><td>+20 °C</td><td>++</td><td>++</td><td>++</td><td>++</td><td>++</td><td>++</td></td<>	.60	potassium sulfate	5 %	+20 °C	++	++	++	++	++	++																																																																																																																																															
3.4sewage water BIOHOCH pH=11 $\pm 40 \circ C$ $\pm \pm$ $\pm \pm \pm$ 3.5sewage water BIOHOCH pH=11 $\pm 60 \circ C$ $\pm \pm$ $\pm \pm$ $\pm \pm \pm$ 3.6sewage water BIOHOCH pH=2.5 $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ $\pm \pm \pm$ 3.7sewage water BIOHOCH pH=2.5 $\pm 40 \circ C$ $\pm \pm$ $\pm \pm$ $\pm \pm \pm$ 3.8sewage water BIOHOCH pH=2.5 $\pm 40 \circ C$ $\pm \pm$ $\pm \pm$ $\pm \pm \pm$ 3.8sewage water BIOHOCH pH=2.5 $\pm 60 \circ C$ $24  \pm \pm$ $\pm \pm$ 3.9sewage water BIOHOCH pH=2.5 $\pm 60 \circ C$ $24  \pm \pm$ $\pm \pm$ 3.9sewage water from cockery plant $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ $\pm \pm$ 3.62sewage water from cockery plant $\pm 50 \circ C$ $6  =$ $=$ 3.10sewage water, chemical plant, pH 0,3 $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ $=$ 3.11sewage water, chemical plant, pH 0,5 $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ $=$ 3.13sewage water, chemical plant, pH 4,6 $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ $\pm \pm$ 3.14sewage water, chemical plant, pH 8, containing hydrogen sulfide $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ 3.15sewage water, chemical plant, pH 8, containing hydrogen sulfide $\pm 20 \circ C$ $\pm \pm$ $\pm \pm$ 3.16sewage water, chemical plant, pH 8, containing hydrogen sulfide $\pm 40 \circ C$ $\pm \pm$ $\pm \pm$ 3.16sewage water, chemical plant, pH 8, containing hydrogen sulfide $\pm 40 \circ C$ $\pm \pm$ $\pm \pm$ <tr <td=""><math>\pm 50 \circ C</math><td< td=""><td>5.90 5.3</td><td>sevage water BIOHOCH pH=11</td><td></td><td>+20°C</td><td>++</td><td>TT</td><td>++</td><td>TT</td><td>TT</td><td>TT</td></td<></tr> <tr><td>5.5       sewage water BIOHOCH pH=11       +60 °C       ++       I       ++       I       I         6.6       sewage water BIOHOCH pH=2.5       +20 °C       ++       I       I++       I       I         7.7       sewage water BIOHOCH pH=2.5       +40 °C       ++       I       I++       I       I         8.8       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water from cockery plant       +20 °C       I++       I       I       I         16.0       sewage water, chemical plant, pH 0,3       +20 °C       I++       I       I       I         11       sewage water, chemical plant, pH 0,3       +20 °C       I++       I       I       I         12       sewage water, chemical plant, pH 10       +20 °C       I++       I       I       I         13       sewage water, chemical plant, pH 0,5       +20 °C       I++       I       I       I         14       <td< td=""><td>5.4</td><td>sewage water BIOHOCH pH=11</td><td></td><td>+40 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></td<></td></tr> <tr><td>66       sewage water BIOHOCH pH=2.5       +20 °C       ++       ++           7.7       sewage water BIOHOCH pH=2.5       +40 °C       ++             8.8       sewage water BIOHOCH pH=2.5       +60 °C       24-       ++             9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       ++             9.9       sewage water BT12, chemical plant, pH=10       +20 °C       ++  &lt;</td><td>.5</td><td>sewage water BIOHOCH pH=11</td><td></td><td>+60 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></tr> <tr><td>2       Sewage water BIOHOCH pH=2.5       +40°C       11       11       11       11         88       sewage water BIOHOCH pH=2.5       +60°C       24-       1+       14       14         9       sewage water BIOHOCH pH=2.5       +60°C       24-       1+       14       14         62       sewage water BIOHOCH pH=2.5       +20°C       24+       12-       14         63       sewage water from cockery plant       +20°C       6-       6-       6-         10       sewage water, chemical plant, pH 0,3       +20°C       6-       6-       14         11       sewage water, chemical plant, pH 0,5       +20°C       6-       6-       14         12       sewage water, chemical plant, pH 0,5       +20°C       6-       6-       14         13       sewage water, chemical plant, pH 4,6       +20°C       ++       ++       ++         14       sewage water, chemical plant, pH 4,6       +20°C       ++       ++       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20°C       ++       ++       ++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40°C       ++       ++       ++     <td>.6 7</td><td>sewage water BIOHOCH pH=2.5</td><td></td><td>+20 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></td></tr> <tr><td>1000 C       ++</td><td>.<i>1</i> .8</td><td>sewage water BIOHOCH pH=2.5</td><td></td><td>+40 °C</td><td>24-</td><td></td><td>++</td><td></td><td></td><td></td></tr> <tr><td>62       sewage water from cockery plant       +20 °C       24+       12-       I       I         63       sewage water from cockery plant       +50 °C       6-       6-       6-       I         10       sewage water, chemical plant       +20 °C       ++       I++       I++       I         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       I-       I       I         12       sewage water, chemical plant, pH 0,5       +20 °C       6-       I       I       I         13       sewage water, chemical plant, pH 11       +20 °C       ++       I++       I++       I++         14       sewage water, chemical plant, pH 4,6       +20 °C       I++       I++       I++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       I++       I++       I++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       I++       I++       I++         23       sewage water, coking plant       +20 °C       I++       I++       I++       I++</td><td>.9</td><td>sewage water BT 12, chemical plant, pH=10</td><td></td><td>+20 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></tr> <tr><td>633       sewage water from cockery plant       +50 °C       6-       6-       6-       6-         10       sewage water, chemical plant       +20 °C       ++       ++       ++       14         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       6-       14       14         12       sewage water, chemical plant, pH 0,5       +20 °C       48-       14       14         13       sewage water, chemical plant, pH 0,5       +20 °C       ++       14       ++         14       sewage water, chemical plant, pH 4,6       +20 °C       ++       14       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++       ++</td><td>.62</td><td>sewage water from cockery plant</td><td></td><td>+20 °C</td><td>24+</td><td></td><td>12-</td><td></td><td></td><td></td></tr> <tr><td>11       sewage water, chemical plant       +20 °C       ++       ++       ++       ++         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       6-       6-       6-         12       sewage water, chemical plant, pH 0,5       +20 °C       48-       6-       6-       10         13       sewage water, chemical plant, pH 11       +20 °C       ++       ++       ++       ++         14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++</td><td>.63</td><td>sewage water from cockery plant</td><td></td><td>+50 °C</td><td>6-</td><td></td><td>6-</td><td></td><td></td><td></td></tr> <tr><td>12       sewage water, chemical plant, pH 0,5       +20 °C       48-         1.13       sewage water, chemical plant, pH 11       +20 °C       ++       ++         1.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++         1.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         1.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         1.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++         1.23       sewage water, coking plant       +20 °C       ++       12-</td><td>.10</td><td>sewage water, chemical plant sewage water, chemical plant _pH 0.3</td><td></td><td>+20 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></tr> <tr><td>3.13       sewage water, chemical plant, pH 11       +20 °C       ++       ++       ++         3.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         3.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         3.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         3.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         3.23       sewage water, coking plant       +20 °C       ++       12-       -</td><td>5.12</td><td>sewage water, chemical plant, pH 0,5</td><td></td><td>+20 °C</td><td>48-</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         8.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         8.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         8.23       sewage water, coking plant       +20 °C       ++       12-</td><td>3.13</td><td>sewage water, chemical plant, pH 11</td><td></td><td>+20 °C</td><td>++</td><td></td><td>++</td><td></td><td>++</td><td></td></tr> <tr><td>5.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         5.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         5.23       sewage water, coking plant       +20 °C       ++       12-       12-</td><td>3.14</td><td>sewage water, chemical plant, pH 4,6</td><td></td><td>+20 °C</td><td>++</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.23 sewage water, coking plant +20 °C ++ 12-</td><td>5.15 3.16</td><td>sewage water, chemical plant, pH 8, containing hydroge</td><td>n sulfide</td><td>+20 °C</td><td>++</td><td>++</td><td>++</td><td></td><td>++</td><td></td></tr> <tr><td></td><td>3.23</td><td>sewage water, coking plant</td><td></td><td>+20 °C</td><td>++</td><td></td><td>12-</td><td></td><td></td><td></td></tr>	5.90 5.3	sevage water BIOHOCH pH=11		+20°C	++	TT	++	TT	TT	TT	5.5       sewage water BIOHOCH pH=11       +60 °C       ++       I       ++       I       I         6.6       sewage water BIOHOCH pH=2.5       +20 °C       ++       I       I++       I       I         7.7       sewage water BIOHOCH pH=2.5       +40 °C       ++       I       I++       I       I         8.8       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water from cockery plant       +20 °C       I++       I       I       I         16.0       sewage water, chemical plant, pH 0,3       +20 °C       I++       I       I       I         11       sewage water, chemical plant, pH 0,3       +20 °C       I++       I       I       I         12       sewage water, chemical plant, pH 10       +20 °C       I++       I       I       I         13       sewage water, chemical plant, pH 0,5       +20 °C       I++       I       I       I         14 <td< td=""><td>5.4</td><td>sewage water BIOHOCH pH=11</td><td></td><td>+40 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></td<>	5.4	sewage water BIOHOCH pH=11		+40 °C	++		++				66       sewage water BIOHOCH pH=2.5       +20 °C       ++       ++           7.7       sewage water BIOHOCH pH=2.5       +40 °C       ++             8.8       sewage water BIOHOCH pH=2.5       +60 °C       24-       ++             9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       ++             9.9       sewage water BT12, chemical plant, pH=10       +20 °C       ++  <	.5	sewage water BIOHOCH pH=11		+60 °C	++		++				2       Sewage water BIOHOCH pH=2.5       +40°C       11       11       11       11         88       sewage water BIOHOCH pH=2.5       +60°C       24-       1+       14       14         9       sewage water BIOHOCH pH=2.5       +60°C       24-       1+       14       14         62       sewage water BIOHOCH pH=2.5       +20°C       24+       12-       14         63       sewage water from cockery plant       +20°C       6-       6-       6-         10       sewage water, chemical plant, pH 0,3       +20°C       6-       6-       14         11       sewage water, chemical plant, pH 0,5       +20°C       6-       6-       14         12       sewage water, chemical plant, pH 0,5       +20°C       6-       6-       14         13       sewage water, chemical plant, pH 4,6       +20°C       ++       ++       ++         14       sewage water, chemical plant, pH 4,6       +20°C       ++       ++       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20°C       ++       ++       ++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40°C       ++       ++       ++ <td>.6 7</td> <td>sewage water BIOHOCH pH=2.5</td> <td></td> <td>+20 °C</td> <td>++</td> <td></td> <td>++</td> <td></td> <td></td> <td></td>	.6 7	sewage water BIOHOCH pH=2.5		+20 °C	++		++				1000 C       ++	. <i>1</i> .8	sewage water BIOHOCH pH=2.5		+40 °C	24-		++				62       sewage water from cockery plant       +20 °C       24+       12-       I       I         63       sewage water from cockery plant       +50 °C       6-       6-       6-       I         10       sewage water, chemical plant       +20 °C       ++       I++       I++       I         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       I-       I       I         12       sewage water, chemical plant, pH 0,5       +20 °C       6-       I       I       I         13       sewage water, chemical plant, pH 11       +20 °C       ++       I++       I++       I++         14       sewage water, chemical plant, pH 4,6       +20 °C       I++       I++       I++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       I++       I++       I++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       I++       I++       I++         23       sewage water, coking plant       +20 °C       I++       I++       I++       I++	.9	sewage water BT 12, chemical plant, pH=10		+20 °C	++		++				633       sewage water from cockery plant       +50 °C       6-       6-       6-       6-         10       sewage water, chemical plant       +20 °C       ++       ++       ++       14         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       6-       14       14         12       sewage water, chemical plant, pH 0,5       +20 °C       48-       14       14         13       sewage water, chemical plant, pH 0,5       +20 °C       ++       14       ++         14       sewage water, chemical plant, pH 4,6       +20 °C       ++       14       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++       ++	.62	sewage water from cockery plant		+20 °C	24+		12-				11       sewage water, chemical plant       +20 °C       ++       ++       ++       ++         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       6-       6-       6-         12       sewage water, chemical plant, pH 0,5       +20 °C       48-       6-       6-       10         13       sewage water, chemical plant, pH 11       +20 °C       ++       ++       ++       ++         14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++	.63	sewage water from cockery plant		+50 °C	6-		6-				12       sewage water, chemical plant, pH 0,5       +20 °C       48-         1.13       sewage water, chemical plant, pH 11       +20 °C       ++       ++         1.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++         1.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         1.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         1.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++         1.23       sewage water, coking plant       +20 °C       ++       12-	.10	sewage water, chemical plant sewage water, chemical plant _pH 0.3		+20 °C	++		++				3.13       sewage water, chemical plant, pH 11       +20 °C       ++       ++       ++         3.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         3.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         3.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         3.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         3.23       sewage water, coking plant       +20 °C       ++       12-       -	5.12	sewage water, chemical plant, pH 0,5		+20 °C	48-						8.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         8.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         8.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         8.23       sewage water, coking plant       +20 °C       ++       12-	3.13	sewage water, chemical plant, pH 11		+20 °C	++		++		++		5.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         5.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         5.23       sewage water, coking plant       +20 °C       ++       12-       12-	3.14	sewage water, chemical plant, pH 4,6		+20 °C	++						3.23 sewage water, coking plant +20 °C ++ 12-	5.15 3.16	sewage water, chemical plant, pH 8, containing hydroge	n sulfide	+20 °C	++	++	++		++			3.23	sewage water, coking plant		+20 °C	++		12-			
5.90 5.3	sevage water BIOHOCH pH=11		+20°C	++	TT	++	TT	TT	TT																																																																																																																																																
5.5       sewage water BIOHOCH pH=11       +60 °C       ++       I       ++       I       I         6.6       sewage water BIOHOCH pH=2.5       +20 °C       ++       I       I++       I       I         7.7       sewage water BIOHOCH pH=2.5       +40 °C       ++       I       I++       I       I         8.8       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       I++       I       I         9.9       sewage water from cockery plant       +20 °C       I++       I       I       I         16.0       sewage water, chemical plant, pH 0,3       +20 °C       I++       I       I       I         11       sewage water, chemical plant, pH 0,3       +20 °C       I++       I       I       I         12       sewage water, chemical plant, pH 10       +20 °C       I++       I       I       I         13       sewage water, chemical plant, pH 0,5       +20 °C       I++       I       I       I         14 <td< td=""><td>5.4</td><td>sewage water BIOHOCH pH=11</td><td></td><td>+40 °C</td><td>++</td><td></td><td>++</td><td></td><td></td><td></td></td<>	5.4	sewage water BIOHOCH pH=11		+40 °C	++		++																																																																																																																																																		
66       sewage water BIOHOCH pH=2.5       +20 °C       ++       ++           7.7       sewage water BIOHOCH pH=2.5       +40 °C       ++             8.8       sewage water BIOHOCH pH=2.5       +60 °C       24-       ++             9.9       sewage water BIOHOCH pH=2.5       +60 °C       24-       ++             9.9       sewage water BT12, chemical plant, pH=10       +20 °C       ++  <	.5	sewage water BIOHOCH pH=11		+60 °C	++		++																																																																																																																																																		
2       Sewage water BIOHOCH pH=2.5       +40°C       11       11       11       11         88       sewage water BIOHOCH pH=2.5       +60°C       24-       1+       14       14         9       sewage water BIOHOCH pH=2.5       +60°C       24-       1+       14       14         62       sewage water BIOHOCH pH=2.5       +20°C       24+       12-       14         63       sewage water from cockery plant       +20°C       6-       6-       6-         10       sewage water, chemical plant, pH 0,3       +20°C       6-       6-       14         11       sewage water, chemical plant, pH 0,5       +20°C       6-       6-       14         12       sewage water, chemical plant, pH 0,5       +20°C       6-       6-       14         13       sewage water, chemical plant, pH 4,6       +20°C       ++       ++       ++         14       sewage water, chemical plant, pH 4,6       +20°C       ++       ++       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20°C       ++       ++       ++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40°C       ++       ++       ++ <td>.6 7</td> <td>sewage water BIOHOCH pH=2.5</td> <td></td> <td>+20 °C</td> <td>++</td> <td></td> <td>++</td> <td></td> <td></td> <td></td>	.6 7	sewage water BIOHOCH pH=2.5		+20 °C	++		++																																																																																																																																																		
1000 C       ++	. <i>1</i> .8	sewage water BIOHOCH pH=2.5		+40 °C	24-		++																																																																																																																																																		
62       sewage water from cockery plant       +20 °C       24+       12-       I       I         63       sewage water from cockery plant       +50 °C       6-       6-       6-       I         10       sewage water, chemical plant       +20 °C       ++       I++       I++       I         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       I-       I       I         12       sewage water, chemical plant, pH 0,5       +20 °C       6-       I       I       I         13       sewage water, chemical plant, pH 11       +20 °C       ++       I++       I++       I++         14       sewage water, chemical plant, pH 4,6       +20 °C       I++       I++       I++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       I++       I++       I++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       I++       I++       I++         23       sewage water, coking plant       +20 °C       I++       I++       I++       I++	.9	sewage water BT 12, chemical plant, pH=10		+20 °C	++		++																																																																																																																																																		
633       sewage water from cockery plant       +50 °C       6-       6-       6-       6-         10       sewage water, chemical plant       +20 °C       ++       ++       ++       14         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       6-       14       14         12       sewage water, chemical plant, pH 0,5       +20 °C       48-       14       14         13       sewage water, chemical plant, pH 0,5       +20 °C       ++       14       ++         14       sewage water, chemical plant, pH 4,6       +20 °C       ++       14       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++       ++	.62	sewage water from cockery plant		+20 °C	24+		12-																																																																																																																																																		
11       sewage water, chemical plant       +20 °C       ++       ++       ++       ++         11       sewage water, chemical plant, pH 0,3       +20 °C       6-       6-       6-       6-         12       sewage water, chemical plant, pH 0,5       +20 °C       48-       6-       6-       10         13       sewage water, chemical plant, pH 11       +20 °C       ++       ++       ++       ++         14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++         16       sewage water, coking plant       +20 °C       ++       ++       ++	.63	sewage water from cockery plant		+50 °C	6-		6-																																																																																																																																																		
12       sewage water, chemical plant, pH 0,5       +20 °C       48-         1.13       sewage water, chemical plant, pH 11       +20 °C       ++       ++         1.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++         1.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         1.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++         1.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++         1.23       sewage water, coking plant       +20 °C       ++       12-	.10	sewage water, chemical plant sewage water, chemical plant _pH 0.3		+20 °C	++		++																																																																																																																																																		
3.13       sewage water, chemical plant, pH 11       +20 °C       ++       ++       ++         3.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         3.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         3.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         3.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         3.23       sewage water, coking plant       +20 °C       ++       12-       -	5.12	sewage water, chemical plant, pH 0,5		+20 °C	48-																																																																																																																																																				
8.14       sewage water, chemical plant, pH 4,6       +20 °C       ++       ++       ++         8.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         8.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         8.23       sewage water, coking plant       +20 °C       ++       12-	3.13	sewage water, chemical plant, pH 11		+20 °C	++		++		++																																																																																																																																																
5.15       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +20 °C       ++       ++       ++         5.16       sewage water, chemical plant, pH 8, containing hydrogen sulfide       +40 °C       ++       ++       ++         5.23       sewage water, coking plant       +20 °C       ++       12-       12-	3.14	sewage water, chemical plant, pH 4,6		+20 °C	++																																																																																																																																																				
3.23 sewage water, coking plant +20 °C ++ 12-	5.15 3.16	sewage water, chemical plant, pH 8, containing hydroge	n sulfide	+20 °C	++	++	++		++																																																																																																																																																
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7.0.4	3. Chemicals / Salts	Conc.	Temp.	13	1 3	/ 3	/ ని	1 2	1 2	(
3.24	sewage water, coking plant	0.5	+50 °C	6-		6-				
3.18	sewage water, dyeing mill, after flockulation, pH 8.5 to I	0.5	+40 °C	48-		++		++		
3.20 7.10	sewage water, dyeing mill, collecting tank, pH 4 to 6		+40 °C	++		++				
3.19	sewage water, dyeing mill, during notation, ph 9	77.0/	+20 °C	TT		24+		TT		
3.20	sewage water, mixture, benzene-containing	33 % H 10	+20 °C			-24F				
3.2	sewage water, neutralisation plant of dyeing mill, latty p sewage water, naper board production, pH 6.7		+40 °C	++		++				
3 21	sewage water, potato starch production, pH 5		+20 °C		++	++				
3 17	sewage water, protocolstaren production, prio		+50 °C	++		++		++		
3.25	sewage water, pumpwell pH 7.5		+40 °C	++		++				
3.27	sewage water, test mixture A, solvent-containing, chemi	ical plant	+20 °C	++	++	++				
3.28	sewage water, test mixture A, solvent-containing, chemi	ical plant	+40 °C	++	++	++				
3.29	sewage water, test mixture B, solvent-containing, chemi	cal plant	+20 °C	++	++	++				
3.30	sewage water, test mixture B, solvent-containing, chemi	cal plant	+40 °C	++	++	++				
3.91	silicium tetra chloride		+20 °C	1-	3-	3-				
3.75	sodium acetate	5 %	+20 °C		++	++				
3.76	sodium bicarbonate	10 %	+20 °C	++	++	++	++	++	++	
3.77	sodium carbonate	3%	+20 °C			++				
3.78	sodium carbonate	5 %	+20 °C	++	++	++	++	++	++	
3.79	sodium chlorate	25 %	+20 °C	++		++				
3.80	sodium chloride	0,50 %	+20 °C			++				
3.81	sodium chloride	3 %	+20 °C	++	++	++				
3.82	sodium chloride	5 %	+20 °C		++	++				
3.83	sodium chloride	20 %	+40 °C	++	++	++	++	++	++	
3.84	sodium chloride	3 %	+50 °C			++				
3.85	sodium chloride	25 %	+60 °C	3-						
3.86	sodium chloride	3 %	+70 °C			48+				
3.87	sodium chloride	3 %	+80 °C			3+				
3.88	sodium tetraborate (Borax)	5 %	+20 °C		++	++				
3.71	tap water		+20 °C	++	++	++	++	++	++	
3.72	tap water		+50 °C	++	++	++				
3.96	water, destilled		+20 °C	++	++	++	++	++	++	
3.97	water, destilled		+40 °C	++	++	++	++	++	++	
3.98	water, destilled		+50 °C	++	++	++				
3.99	water, destilled		+60 °C	++	4.5	4.5				
3.100	water, destilled		+70 °C	36-	12-	12-				
3.101	water, destilled		+80 °C	36-	0	1-				
3.102	water, destilled		+100 °C	24-	0	1-				

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	4. Organic media C	onc.	Temp.							/
4.2	acetaldehyde, ethanal 0	,10 %	+20 °C			++				
4.3	acetaldehyde, ethanal	1%	+20 °C			++				
4.4 4.5	acetaldenyde, ethanal acetaldehyde, ethanal	0 % )8 %	+20 °C +20 °C			0				
4.9	acetone		+20 °C	0	0	0	0	0	0	
4.10	Ad blue (solution of urea) 32	,50 %	+20 °C			++	++	++		
4.11	Ad blue (solution of urea) 32 Adin, regenerated (disi-propanolamine 30 % in H2O)	2,50 %	+40 °C +20 °C			++	++	++		
4.12	Aero-Öl D 100 (oil for jet turbines)		+20 °C			++	++			
4.14	alcohol mixtures up to 48 Vol-% ethanol (IB 5b)		+20 °C	0		++	++	++	12-	
4.15	alcohol mixtures up to 48 Vol-% ethanol (IB 5b)		+40 °C	0		++	++	++	12-	
4.16	alcohol mixtures up to 48 Vol-% methanol (IB 5) alcohol mixtures up to 48 Vol-% methanol (IB 5)		+20 °C	3-		6+ .3-	3-			
4.19	alkyl benzene		+20 °C			++				
4.20	alkyl benzene V 404, temperature cycling biweekly		+20/+80°C			++				
4.18	alkyl-aryl-phosphite		+20 °C	++		++				
4.21	anijne		+20 °C	0		0				
4.26	Anisol		+20 °C			++				
4.28	antraceneoil TGK + H2O distilled		+20 °C			++				
4.158	aviation fuel 100LL + Deionat (IB 2) aviation fuel Aero D 100		+40 °C +20 °C	12-		++	++			
4.159	aviation fuel Avgas 100		+20 °C			++	++			
4.160	aviation fuel Avgas 100 LL		+20 °C			++	++			
4.161	aviation fuel Avgas 115		+20 °C			++	++			
4.162	aviation fuel Avgas 80 aviation fuel Avgas Grad 100		+20 °C			++				
4.164	aviation fuel Avgas Grad 100 LL		+20 °C			++				
4.165	aviation fuel Avgas Grad 115		+20 °C			++				
4.166	aviation fuel Avgas Grad 80		+20 °C			++				
4.167	aviation fuel F 18 aviation fuel F 22		+20 °C			++				
4.169	aviation fuel Gasoline 100		+20 °C			++	++			
4.170	aviation fuel Gasoline 100 LL		+20 °C			++	++			
4.171	aviation fuel Gasoline 115/145		+20 °C			++	++			
4.172	aviation fuel Jet A1 + Deionate (IB 2)		+20°C	24-		++	++			
4.39	benzene/toluene/xylene/methylnaphtaline-mixture 30:30:30:10	С	+20 °C			++				
4.35	benzene/toluene-mixture 10:90 VT		+20 °C			++				
4.36	benzene/toluene-mixture 10:90 VT benzene/toluene-mixture 30:70 VT		+40 °C			++				
4.38	benzene/toluene-mixture 30:70 VT		+20 °C			++				
4.30	benzin 100/140		+20 °C		++	++	++			
4.31	benzin 100/140 + H <sub>2</sub> O dest.		+20 °C		++	++	++			
4.32 4.33	benzin 80/110		+20 °C			++	++			
4.34	benzol saturated with H <sub>2</sub> O		+20 °C			0				
4.41	benzotrifluorid		+20 °C			++				
4.42	benzoyloctyladipate (plastiziser, Adimoll BO)		+20 °C		ж.	++	1.1	т.)		
4.45	biodiesel (rape oil methyl ester)		+40 °C		++	++	++	++		
4.45	bitumina solution 40/60		+80 °C			24+				
4.46	butane		+20 °C	4.5	_	++				
4.50	butyl acetate S	98 %	+20 °C	48+	3-	++	++			
4.48	butyl alcohol, sec.		+20 °C			++	++			
4.49	butyl alhohol, tert.		+20 °C			++	++			
4.51	butyl di-ethylene glycol		+20 °C	24-		++	++	++		
4.52	butyl glycol butyltoluene, para-tert		+20 °C	0		++	++	++		
4.54	calcium-ligninsulfonate120 Collex XB		+20 °C	48-	48-	++				
4.55	calcium-ligninsulfonate120 Collex XB		+70 °C	24-	48-	++				
4.56	Carbolineum F		+20 °C	++		48-				
4.514	carbon tetrachloride		+20 °C	T T		++				
4.515	carbon tetrachloride + H2O distilled		+20 °C			24+				

4. Organic media     Conc.     Temp.     Temp.       4.0 chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++	Du-1010 30
4. Organic media     Conc.     Temp.     Temp.       4.60     chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++       4.60     chlorinated paraffin 50 liquid (plastiziser)     +20 °C     ++	Dura Date 32
4. Organic media     Conc.     Temp.     Temp.       4.60     chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++       4.60     chlorinated paraffin 50 liquid (plastiziser)     +20 °C     ++	Dura Plate 25
4. Organic media     Conc.     Temp.       4.0 chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++       4.60     chlorinated paraffin 20 liquid (plastiziser)     +20 °C     ++	Dura-Plate
4. Organic media     Conc.     Temp.     Image: Conc.       4.60     chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++       4.60     chlorinated paraffin 50 liquid) (clasticiner)     +20 °C     ++	Dura-Pia
4. Organic media     Conc.     Temp.     A       4.60     chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++       4.60     chlorinated paraffin 40 liquid (plastiziser)     +20 °C     ++	<u>,                                    </u>
4.60 chlorinated paraffin 40 liquid (plastiziser) +20 °C ++	
1/1 elelenneeteeleeretteel() heruel() (eleetutreer)	
63 chlorinated paraffin 52 G (plastiziser) +20 °C ++	
1.60     chlorinated parafin 52 (glastitater)     +20 °C     ++       1.62     chlorinated parafin 52 liquid (plastitiser)     +20 °C     ++	
4.64 chloro (3 )propyl triethoxysilane +20 °C ++	
1.58 chloroaniline, meta +20 °C 0 □	
.59         cmorororm         +20 °C         0           .321         compressor oil (DX-Diala, Shell)         +20 °C         ++         ++	
502 creosote (Teeröl No. 1), high viscosity, brown/black +80 °C 24-	
.503 creosote (Teeröl No. 2), low viscosity, brown/black +80 °C 1-	
.504 creosote (Teeröl No. 2), low viscosity, green/olive     +80 °C     ++       .470 crudo all (72 different turac)     NaCLOF %     100 °C	
440 crude oil (NIL B:727) +40 °C ++	
442 crude oil (NIL B:727) + NaCl 0,5% +60 °C ++	
443 crude oil (NIL B:727) + NaCl 0,5% +80 °C ++	
444 crude oil (NIL B:727) + NaCl 0,5% +100 °C	
449 crude oil (NL 5.727) + NdCl 0,5% (IB 40) +40 C ++ 449 crude oil + NaCl 0,5% +50 °C ++	
446 crude oil + NaCl 0,5% +70 °C 48+	
448 crude oil testing mixture +20 °C ++ ++ ++ ++	
149 crude oil testing mixture + NaCl 0.5 %         +20 °C         ++         ++           150 crude oil testing mixture + NaCl 0.5 %         + 40 °C         ++         ++	
450 crude oil testing mixture + NaCI 0.5 % +40 °C ++ ++	
21         crude oil, raw         +20 °C         ++         ++	
16 curd soap, pH=7 3 % +20 °C ++ ++ ++	
7 cyclo hexanone +20 °C 0	
5 cyclohexane +20 °C ++ ++ ++ 6 cyclohexane +20 °C ++ ++ ++	
7 cvclohexanon +20 °C 0	
8 cyclohexylacetate +20 °C ++	
2 decalin + H2O distilled +20 °C ++	
59         decanol (fatty alcohol, Nacol 10-99)         +20 °C         ++         ++           70         decanol (fatty alcohol, Nacol 10, 00)         +EO °C         24+         24+	
1         decanol (fatty alcohol, Nacol 10-99)         +80 °C         36-         6-	
3 di-2-ethylhexyladipate (Plastanoll DOA, plastiziser) +20 °C ++	
4 di-2-ethylhexylphthalate (Palatinol AH, plastiziser) +20 °C ++	
5 diacetone alcohol +20 °C 0	
o     o     o     uoutyprimalar (plastiziser)     +20 °C     48+     ++       12     dichloro (2.5)-4-hexafluoropropoxy-4-njtrobenzene DHNR     +20 °C     ++	
I dichloro 2.5-4-hexafluoropropoxy-aniline DHA     +20 °C     ++	
77     di-chlorobenzene, ortho - with hydrochloric acid 5 %     +20 °C     3-	
78     di-chlorobenzene, ortho - with hydrochloric acid 5 %     +40 °C     1-       79     di-chlorobenzene, ortho - with hydrochloric acid 5 %     +60 °C     1-	
30 dichloromethane +20 °C 0	
35 diesel, according to DIN 51601 +20 °C ++ ++	
36         diesel, according to DIN 51601 + H <sub>2</sub> O dest.         +20 °C         ++         ++	
37         diesel, according to DIN 51601 + H <sub>2</sub> O dest.         +50 °C         ++         ++           29         diesel, according to DIN 51601 + H O dest.         +70 °C         -7	
89         diesel, according to DIN 51601 + H <sub>2</sub> O dest.         +70°C         3+	
90         diesel, according to DIN 51601 + NaCl 0,5%         +20 °C         ++         ++	
M         diesel, according to DIN 51601 + NaCl 0,5%         +40 °C         ++         ++	
33     diesel-bio, rapeseed oil methylester     +20 °C     ++     ++       24     diesel-bio, rapeseed oil methylester     +40 °C     ++	
94     Orego and the constraint of the c	
3         diethylene glycol         +50 °C         12-         48-         ++         ++	
4 di-ethylphthalate (Palatinol A, plastiziser) +20 °C ++	
95         di-glycol         +20 °C         ++         ++         ++           96         di-glycol         10         10         10	
36 di-giycol         +50 °C         12-         48-         ++         ++           38 di-i-butyobthalat (Palatinol IC plastiziser)         +20 °C         ++         ++	
99     di-i-decylphthalate (Plastomoll DIDA, plastiziser)     +20 °C     ++	
00 di-i-nonylphthalate(Palatinol DN, plastiziser) +20 °C ++	
7   di-iso butyl ketone   +20 °C   ++	
101         dimethyl amine         1 %         +20 °C         ++         ++           102         dimethyl amine         1 %         +40 °C         Z_         ++	
102 dimethyl amine 1/0 +40 °C 5 + ++	
.104 dimethyl amine 40 % +40 °C 0 0	

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	4. Organic modia	Conc	Tomp	J.				8	د / ۱
105	dimethyl amino propylamine (DMAPA)	10.0%	+60 °C		<u> </u>			<u> </u>	<u> </u>
106	dimethyl amino propylamine (DMAPA) in water	10%	+60 °C	0		++			
.107	dimethyl benzene (xylene)		+20 °C	++	++	++	++	++	
.108	dimethyl formamide		+20 °C	0	0	0			
.109	dimethyl phthalate (Palatinol M, plastiziser)		+20 °C			++			
.110	dioctyl adipat (Adimoll DO, plastiziser)		+20 °C			++			
.11	dioctyl phthalate (plastiziser)		+20 °C			++			
112	dipentene (terpenehydrocarbon)		+20 °C			++			
113 114	diphenyl kresyl phosphate (plastiziser)		+20 °C			++			
115	di-tertiär-para-Butylkresol 80 % in xylene		+20 °C			++			
116	dodecanol		+20 °C	++		++	++	++	
117	dodecanol		+50 °C	24+		24+			
18	dodecylbenzene		+50 °C			++			
119	Dyeguard ROT MCGY, dyestuff for heating oil		+20 °C			++			
20	Dyeguard ROT MCGY, dyestuff for heating oil		+40 °C			++			
122	ester and ketones (without ceton) + distilled water(IB 7)		+20 °C	0		0	0	0	
123 171	ester and ketones (without ceton) + distilled water(IB 7)		+40 °C	0		7	0	0	
ञा दुह	ethanol up to 48Vol-% ethanol (IR 5b)		+20 °C	0			++		12-
36	ethanol up to 48Vol-% ethanol (IB 5b)		+40 °C	0		++	++		12-
39	ethanol, denatured	50 %	+20 °C		++				
4C	ethanol, denatured	96 %	+20 °C	0	3-	1-	1-	3-	3-
32	ethanol, pure	10 %	+20 °C		++	++	++	++	++
53	ethanol, pure	15 %	+20 °C		++	++	++	++	++
4	ethanol, pure	15 %	+40 °C		++	++	++	++	++
/	ethanol, pure	50 %	+20 °C		++	++			
00	ethanol, pure	96%	+20 °C	++	5-	++		++	
5	ethanolamine	1%	+40 °C	36-		++			
26	ethanolamine	5 %	+20 °C	48+		48+			
7	ethanolamine	100 %	+20 °C	1-		1-	1-	1-	
28	ethanolamine	100 %	+40 °C	0		0			
9	ethyl acetate + methyl isobutyl ketone (1:1) + dist.water, IB 7		+40 °C	0		0	0	0	0
0	ethyl acetate + methyl isobutyl ketone (1:1), Gr. IB 7		+40 °C	0		0	0	0	0
1	ethyl benzene		+20 °C			++			
+ Z 1 Z	etnyi butyi ketone ethyi butyiteluene		+20 °C			24-			
+3	ethyl di-ethylene alvcole(diethylenealykol monoethylether)		+20°C			6-			
55	ethyl glycol (2-ethoxyethanol)		+20 °C			0			
56	ethyl glycol acetate (2-ethoxyethylacetat)		+20 °C			6-			
45	ethylene chloride		+20 °C			0			
46	ethylene chloride + H2O distilled		+20 °C			0			
47	ethylene glycol, di- (di ethylene glycole, diglycol)	_	+20 °C	++	++	++			
48	ethylene glycol, di- (di ethylene glycole, diglycol)		+50 °C	12-	48-	++			
49	etnylene giycol, mono- (monoglycol, glykol,ethanediol, MEG)		+20 °C	++	++	++	++	++	
50 51	ethylene glycol, mono- (monoglycol, glykol,ethanediol, MEG)		+50 °C	++	++	++			
52	ethylene glycol, tri- ( triglycol, triethylene glycol, TEG)		+20 °C	++	++	++			
53	ethylene glycol, tri- ( triglycol, triethylene glycol, TEG)		+50 °C	6-	12-	12-			
54	ethylene oxide		+20 ° C			0			
96	fluoroanilin, ortho		+20 °C			1-			
97	formaldehyde	1%	+20 °C		++				
98	formaldehyde	3%	+20 °C			++			
:00	tormaldehyde (tormalin)	77.0/	+40 °C			2-	7	6.	
99 99	formaldehyde (formalin), iB 8	51 %	+20 °C		++	++	5-	6+	
90	fuel, high octane testing mixture, acc. Swiss Regulation, appe	ndix 6	+20 °C		24+				
497	fuel, high octane testing mixture, acc. TRbF 401		+20 °C		~~ '	24+			
-	fuel, high octane testing mixture, acc. TRbF 401		+50 °C			24+			
198						24+			
498 499	fuel, high octane testing mixture, acc. TRbF 401 + H2O distille	ed	+20° C						
498 499 485	fuel, high octane testing mixture, acc. TRbF 401 + H2O distille fuel, high octane, lead containing	ed	+20° C +40 °C			++			
498 499 489 489	fuel, high octane testing mixture, acc. TRbF 401 + H2O distill fuel, high octane, lead containing fuel, high octane, lead containing	ed	+20° C +40 °C +20 °C			++ ++			
498 499 489 489 489	fuel, high octane testing mixture, acc. TRbF 401 + H2O distille fuel, high octane, lead containing fuel, high octane, lead containing fuel, high octane, lead containing + H2O distilled	ed	+20°C +40 °C +20 °C +20 °C			++ ++ ++			

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4.400	4. Organic media	Conc.	Temp.	1 5	15	<u> </u>	15	15	15	/
4.490	fuel, high octane, lead containing + methyl-tertiar-butylether (	35:15	+20°C			24+				I
4.492	fuel, high octane, lead containing + NaCl 0.5 %		+20 °C			++				I
4.493	fuel, high octane, lead containing + tertButanol 50:50		+20 °C			25+				I
4.494	fuel, high octane, lead containing + tertButanol 70:30		+20 °C			25+				I
4.482	fuel, high octane, lead containing intertButanoi ostio		+20 °C			++				I
4.483	fuel, high octane, leadfree		+40 °C			++				I
4.484	fuel, high octane, leadfree, methanol containing, acc. EG Regu	lations	+20 °C			++				I
4.406	fuel, Iow octane (FAM testIiquid) + Deionat (IB1) fumaric-acid i-octylester		+40 °C	6-	++	++				I
4.203	furfural (Furfurol, Furfurylaldehyd)		+20 °C			0				I
4.205	gear oil, new from production		+20 °C			++	++			1
4.204	gear oil, used		+20 °C			++	++			1
4.209	glycerine		+20 °C			++				1
4.208	grycol (mono ethylene grycol, mono grycol, ethanediol, MEG) glycol (mono ethylene glycol, mono glycol, ethanediol, MEG)		+20 °C	++	++	++	++	++		1
4.208	glycol (mono ethylene glycol, mono glycol, ethanediol, MEG)		+50 °C	++	++	++				1
4.452	grinding oil		+40 °C		++	++				1
4.210	halogenated hydrocarbons (aliphatic. + C2) + HCl 0.3 % (IB 6)		+20 °C	0		0	0	0	0	1
4.211	halogenated hydrocarbons(aliphatic.+ C1) + HCI 0.3 % (IB 6a)		+20 °C	0		0	0	0	0	1
4.212	heating oil EL		+20 °C	++		++	++			1
4.216	heating oil EL + H <sub>2</sub> O distilled		+20 °C			++	++			1
4.217	heating oil EL + NaCl 0,5 %		+20 °C	++		++	36+		36+	1
4.218	heating oil S		+80 °C			++				1
4.219	heating oil S ( with 3.22 % sulfur) beating oil S + H-O des ( with 3.22 % sulfur)		+80 °C			++				1
4.221	heating oil S with 25 % Koker heating oil		+80 °C			++				1
4.222	heating oil S with 25 % Koker heating oil + H2O distilled		+80 °C			++				1
4.480	heating oil, produced from coal		+20 °C	48-		++				1
4.481	heating oil, produced from coal + NaCL0.5 %		+20 °C	++		++				1
4.223	heating oil, test oil A 20 NP II + NaCl 0.5 % (IB 3)		+40 °C	24-		++	++			1
4.455	heavy aromatic naphta		+20 °C			++	++			1
4.225	hexadecanol (Trade name Nacol 16-99)		+20 °C	++		++				1
4.226	hexadecanol (Trade name Nacol 16-99)		+50 °C	++		++				1
4.227	hexadecanol (Trade name Nacol 6-99)		+80 °C	12-		++				1
4.229	hexanol (Trade name Nacol 6-97)		+50 °C	24+		24+				1
4.230	hexanol (Trade name Nacol 6-97)		+80 °C	6-		3-				1
4.231	Hordaflex LC 50 (plastiziser)		+20 °C			++				1
4.232	hydraulic fluid - Aeroshell Fluid 4 hydraulic fluid - Avilub HLP-D 68		+85 °C	1+		1+				1
4.234	hydraulic fluid - Avilub RSL 68		+85 °C	1+		1+				1
4.235	hydraulic fluid - Avilub RSX		+85 °C	1+		1+				1
4.236	hydraulic fluid – Bechem Starlit EM-P	5 %	+20 °C	++		++				1
4.237	hydraulic fluid - Brenntag 46		+85 °C	1+		1+				1
4.238	hydraulic fluid - Brenntag 709 TR 22 hydraulic fluid - Brenntag Hydrolube NF 46		+85 °C	1+		1+				1
4.240	hydraulic fluid – Ecubsol 36		+85 °C	1+		1+				1
4.241	hydraulic fluid - Ecubsolhydrotherm 36		+70 °C	36-		++				1
4.242	hydraulic fluid - Fyrquel EHC		+85 °C	1+		1+				1
4.243	nydraulic fluid - HFC bydraulic fluid - Houghto Safe 620		+85 °C	24-		24-				1
4.245	hydraulic fluid - HSD		+20 °C	++						1
4.246	hydraulic fluid - Hydraulic TR-46		+70 °C	++		36-				1
4.247	hydraulic fluid - Hydrotherm 46 NF		+85 °C	1+		1+				1
4.248	hydraulic fluid - Pentosin LHF 7.1		+85 °C	1+		1+				1
4.249	hydraulic fluid - GuintoLubric 822-820 hydraulic fluid - Skydrol		+85 °C	0		0				1
4.251	hydraulic fluid - Ukadol 46 NG		+85 °C	0		1+				1
4.252	hydraulic fluid Quaker N MFF-46		+20 °C	++		++				1
4.253	hydraulic fluid Quaker N MFF-46		+60 °C	24-		12-				1
4.254	hydraulic fluid Quaker N MFF-46-P		+60 °C	36-		36-				1
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4. Organic media Conc. Temp.	and
4.256 hydraulic fluid Quaker N MFF-68 +20 °C ++ ++	
.257 hydraulic fluid Quaker N MFF-68 +60 °C 48- 24-	
259 hydraulic fluid Quintolubric N 730 +60 °C 12- 24-	
.260 hydraulic fluid Quintolubric N 822-220 +20 °C ++ ++	
.261         hydraulic fluid Quintolubric N 822-220         +60 °C         ++         ++         ++	
.262 hydraulic fluid Quintolubric N 822-300 +20 °C ++ ++	
265 hydraulic fluid Quintolubric N 822-300 +60 °C ++ 36- ++	
.271         hydraulic fluid Quintolubric N 822-320         +20 °C         ++         ++	
265 hydraulic fluid Quintolubric N 850 +20 °C ++ ++	
.266 hydraulic fluid Quintolubric N 850 +60 °C ++ ++	
.267 hydraulic fluid Quintolubric N 860         +20 °C         ++         ++           .269 hydraulic fluid Quintolubric N 860         +C0 °C         ++         ++	
200 hydraulic fluid Quintolubric N 800 +60 ℃ ++ ++ ++ 269 hydraulic fluid Quintolubric N 870-68T +20 ℃ ++ ++	
270 hydraulic fluid Quintolubric N 870-68T +60 °C ++ ++	
.272 hydraulic oil +20 °C ++ +	
273 hydraulic oil +80 °C ++ ++	
274 hydraulic o'il +120 °C 1+ 1+	
2/5myaraulic oli (Biohyd 46, BP)     +60° C     48-     ++     ++       276 hydraulic oli (Biohyd SE 46, BP)     +60° C     ++     ++     ++	
277 hydraulic oil (Biotek Alpin 22, Castrol) +60° C 12- ++ ++	
278 hydraulic oil (Econa E 46, DEA)) +60° C 12- 36- 48-	
279 hydraulic oil (Econa R 32, DEA)) +60° C 6- 12- 12-	
280 hydraulic oil (Esterhyd HE 46) +60° C 36- 36- ++	
281 hydraulic oli (Horanyd RTHVI 32) +60° C 6- 12- ++	
283 hydraulic oil (PEL, Esso) +60° C 6- 12- 12-	
284 hydraulic oil (Plantohyd 32 N, Fuchs) +60° C 6- 12- 12-	
285         hydraulic oil (Plantohyd 32 S, Fuchs)         +60° C         6-         ++         ++	
286 hydraulic oil (Plantohyd 46 S, Fuchs) +60° C ++ ++ ++	
28/ hydraulic oil BP Energol HLP 100 +20 °C ++ ++ ++	
289 hydraulic oil Panolin HLP synth. 46 +20 °C ++ ++	
290 hydraulic oil Panolin HLP synth. 46 +60 °C ++ ++	
291         hydraulic oil Rt HVI 32 Raisio         +20 °C         ++         ++         ++	
292 hydraulic oil Rt HVI 32 Raisio +80 °C ++ 48- ++	
295 hydraulic oil Tellus Arctic 32 +60 °C ++	
295 hydraulic oil Tellus Naturelle HF-E46 +60 °C ++	
296 hydraulic oil Tellus Naturelle HF-E46 +80 °C ++	
297 hydraulic oil Tellus Oil 32 +60 °C ++	
298 hydraulic oil Tellus Oil 32 +80 °C ++	
239 nyaraulic oli Tellus Oli 152         +60 °C         ++           300 bydraulic oli Tallus Oli 132         +80 °C         ++	
301 hydrazine 15% +20 °C ++	
318 hydrocarbons, exept benzene + demineralized water (IB 4)     +20 °C     3-     ++     ++	
319     hydrocarbons, exept benzene + demineralized water (IB 4)     +40 °C     3-     ++     ++	
302 hydroxiethan-sulfonsaures Natrium in Lösung, pH=8     +20 °C     48+     48+       707 i. hytragel     +20 °C     48+     48+	
Sugi - butanoi         +20 °C         ++           304 i-butylacetate         98-100%         +20 °C         ++	
305 i-decylalcohol +20 °C ++	
306 i-nonylalcohol +20 °C ++	
308 i-octane +20 °C ++ ++	
310         i-octane/toluene 50/50 + 3 %Methanol +3 %Propanol (DCSEA)         +50 °C         ++         ++         ++           320         i-octane/toluene 50/50 + 3 %Methanol +3 %Propanol (DCSEA)         +50 °C         ++         ++         ++	
309 i-octane/toluene mixture 50/50         +50 °C         48+         48+           307 i-octy/alcohol         +20 °C         +++         +++	
311         i-paraffin         +20 °C         ++	
313 i-propylalcohol +20 °C ++ ++ ++	
314 i-propylalcohol +40 °C ++	
312 isophoron \$ 63 +20 °C 1-	
./         Isopropyl aceto acetate E 510         +20 °C         36-         ++         ++	
315 i-tridecylalcobol +20 °C ++	
.315     i-tridecylalcohol     +20 °C     ++       .317     Kerofluid ES 2 (Additiv)     +20 °C     ++	
.315     i-tridecylalcohol     +20 °C     ++        .317     Kerofluid ES 2 (Additiv)     +20 °C     ++        .322     Kristallöl 21 (white spririt)     +20 °C     ++	

A. Spanner M.         Constrained         Tar.         A         A         A         A         A         A           430         monadicad public som1         200         4 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>/</th><th>/</th><th>/</th><th>/</th><th>///</th></t<>							/	/	/	/	///
A cyapic mail         Con         Term         No         No         No           422         inconsention         600         7         7         7         7         7           423         inconsention         600         7         7         7         7         7           424         inconsention         600         7         8         7         8         7           425         inconsention         600         7         8         8         7         8         7         8         7         8         7         8         7         7         8         7         7         8         7         7         8         7         7         8         7         7         8         7         7         8         7         7         8         7 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Ι.</th> <th>/</th> <th>/_</th> <th>/</th> <th>/ / /</th>							Ι.	/	/_	/	/ / /
A. Springer and Sprin						/	3	\$	15	' /	IT IS
A-branchemin         Con         No.         No.         No.         No.         No.           522         Incontere south         1000         100						15		\$/ \$	\$/_8	5/3	5 9 9
A-grapheneric         Conc         Form         Conc							^» ا	¥` ف		`` ا ق	) * / 
Appair       Appair       Appair       Appair       Appair       Appair         4220       Instance makuta						le d	10	le d	4	le d	leld.
422       Monogene mutuae       420 mutuae		4. Organic media	Conc.	Temp.							/
4.22       No.       No.       No.       No.       No.       No.         4.28       machine grassa       420.°C       No.       No.       No.       No.         4.28       machine grassa       420.°C       No.       No.       No.       No.       No.         4.29       machine (machine grassa       420.°C       No.       No.       No.       No.       No.         4.28       machine (machine Splassa)       420.°C       No.       No.       No.       No.       No.         4.38       machine (machine) science)       420.°C       No.       No.       No.       No.       No.         4.38       machine) (machine) science)       420.°C       No.       No.       No.       No.       No.         4.38       machine) (machine) science)       420.°C       No.       No.       No.       No.       No.         4.38       machine) (machine) science)       420.°C       No.       No. <td< td=""><td>4.324</td><td>Kristallöl 60 (white spririt)</td><td></td><td>+20 °C</td><td></td><td></td><td>++</td><td></td><td></td><td></td><td></td></td<>	4.324	Kristallöl 60 (white spririt)		+20 °C			++				
4.300         1.200         1.000         1.000         1.000         1.000           1.200         1.000         2.000         1.000         2.000         1.000         1.000         1.000           1.200         1.000         2.000         0.000 </td <td>4.325</td> <td>limonene mixture</td> <td></td> <td>+20 °C</td> <td></td> <td></td> <td>++</td> <td></td> <td></td> <td></td> <td></td>	4.325	limonene mixture		+20 °C			++				
4.22         money of developments         4.20         M.         4.41         M.         M. <t< td=""><td>4.328</td><td>m - nitrotoluene machine grease</td><td></td><td>+20 °C</td><td></td><td></td><td>++</td><td></td><td></td><td></td><td></td></t<>	4.328	m - nitrotoluene machine grease		+20 °C			++				
4.2274.2304.200	4.329	machine oil		+20 °C			++				
43.50         1.43.60         1.00         0.00	4.327	marlican (dodecylbenzene)		+20 °C			++				
See Serie         Sec Serie         Sec Serie         Sec Serie         Sec Serie         Sec Serie         Sec Serie           3335         methade H R20 diabled 20 80 (Vol. parts)         420 °C         420 °C<	4.330	mesitylen (trimethylbenzene) methanol (methyl alcohol)		+20 °C	0	0	++	0	0	0	
4.3.34.3.34.3.0	4.332	methanol (methyl alcohol)		+40 °C	0	0	0	0	0	0	
4.3.54       methanol + 1.20 diallel 7.8.54       90 °C       6       6       6       6       6         4.3.55       methanol + tokuene 05/30       90 °C       7       6 <td>4.333</td> <td>methanol + H2O distilled 20:80 (Volparts)</td> <td></td> <td>+20 °C</td> <td></td> <td></td> <td>++</td> <td></td> <td></td> <td></td> <td></td>	4.333	methanol + H2O distilled 20:80 (Volparts)		+20 °C			++				
4.350       method i fart-bulane 302       420       C       <	4.334	methanol + H2O distilled 75:25		+20 °C			0				
4.337       methocynanol       400 °C       V	4.335	methanol + tertbutanol + Water 3:5:94 methanol + toluene 50:50		+20 °C			++				
4.339       methowheanon       1% </td <td>4.337</td> <td>methoxybutanol</td> <td></td> <td>+20 °C</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td>	4.337	methoxybutanol		+20 °C			0				
4.549 methyl-2- amimoethanol       1%       420 °C       44       6	4.338	methoxyhexanon		+20 °C			12-				
international is a final of a final is a final of a final is a fi	4.339	methyl - 2 - aminoethanol	1%	+20 °C	++		++				
4.343       methyl-2 - aminoshandi       98 %       +40 °C       14       10       14       10       14 <td>4.340</td> <td>methyl - 2 - aminoethanol methyl - 2 - aminoethanol</td> <td>98 %</td> <td>+40 °C</td> <td>0</td> <td></td> <td>1-</td> <td></td> <td></td> <td></td> <td></td>	4.340	methyl - 2 - aminoethanol methyl - 2 - aminoethanol	98 %	+40 °C	0		1-				
4.343       methyl - 4 - morpholin       1%       +20 °C       44       -       -       -       -         4.346       methyl - 4 - morpholin       98 %       +20 °C       0	4.342	methyl - 2 - aminoethanol	98 %	+40 °C	0		0				
4.344       methyl - 4 - morpholin       1%       +40 °C       0       1	4.343	methyl - 4 - morpholin	1%	+20 °C	++		++				
and methyler         and methyler<	4.344	methyl - 4 - morpholin methyl - 4 - morpholin	1%	+40 °C	++		++				
4.347       methyl - 4 - morpholinoxid       1%       420 °C       ++       V       ++       V	4.345	methyl - 4 - morpholin	98 %	+40 °C	0		0				
4.348       methyl - 4 - morphiloxid       1%       40 °C       ++       V       ++       V       100       ++       V       100       ++       V       100	4.347	methyl - 4 - morpholinoxid	1%	+20 °C	++		++				
4.343       methyl artin       4.300       120       121 <td>4.348</td> <td>methyl - 4 - morpholinoxid</td> <td>1%</td> <td>+40 °C</td> <td>++</td> <td></td> <td>++</td> <td></td> <td></td> <td></td> <td></td>	4.348	methyl - 4 - morpholinoxid	1%	+40 °C	++		++				
Name         Name         Name         Name         Name         Name         Name         Name           ASSS         methyl amin         1%         440°C         12         12         14         16         10	4.349	methyl - 4 - morpholinoxid methyl - 4 - morpholinoxid	10 %	+20 °C	++		++				
4352nethyl amin1%40°C1/21/26/21/21/21/24353methyl amin6/0420°C1/21/21/21/21/21/24355methyl amin40%40°C3/21/21/21/21/21/24355methyl aminonum chloride10%40°C3/21/21/21/21/21/24355methyl aminonum chloride10%40°C3/21/21/21/21/21/24356methyl aminonum chloride10%40°C3/21/21/21/21/21/24356methyl aminonum chloride1/21/21/21/21/21/21/21/24357methyl aminonum chloride1/21/21/21/21/21/21/21/24358methyl aminonum chloride1/21/21/21/21/21/21/21/24358methyl aminonum chloride1/21/21/21/21/21/21/21/24358methyl aminonum chloride1/21/21/21/21/21/21/21/24358methyl aminonum chloride1/21/21/21/21/21/21/21/24358methyl aminonum chloride1/21/21/21/21/21/21/21/24358methyl aminonum chloride1/21/21/21/21/2 <td>4.351</td> <td>methyl amin</td> <td>1%</td> <td>+20 °C</td> <td>12-</td> <td></td> <td>48-</td> <td></td> <td></td> <td></td> <td></td>	4.351	methyl amin	1%	+20 °C	12-		48-				
4.353       methyl amin       5%       420°C       10	4.352	methyl amin	1%	+40 °C	1-		6-				
4.355       methyl amin       40 %       +20 °C       10       0 </td <td>4.353</td> <td>methyl amin</td> <td>5%</td> <td>+20 °C</td> <td>1</td> <td></td> <td>~</td> <td>3-</td> <td>~</td> <td>~</td> <td></td>	4.353	methyl amin	5%	+20 °C	1		~	3-	~	~	
4.355       methyl ammonium chloride       10 %       +20 °C       36-       V.       ++       V.       V.         4.357       methyl ammonium chloride       10 %       +40 °C       36-       V.       +       V.       V.         4.357       methyl benzene (thouene)       +20 °C       V.	4.354	methyl amin methyl amin	40 %	+20 °C	0		0	0	0	0	
4355methyl benzene (toluene)10%440°C36°VVV	4.356	methyl ammonium chloride	10 %	+20 °C	36-		++				
4.358       methyl benzyl alcohol       +20 °C       I       I       I       I       I         4.359       methyl diglycol       +20 °C       I       I       I       I       I         4.360       methyl diglycol acctate       +20 °C       I	4.357	methyl ammonium chloride	10 %	+40 °C	36-		++				
4.300       methyl belryjnatolial       420 °C       42       42       64	4.358	methyl benzene (toluene)		+20 °C			++				
4.363       methyl ethyl ketone MEK       +20 °C       i       i       i       i       i       i         4.364       methyl glycol acetate       +20 °C       i       i       i       i       i         4.365       methyl kexalin       +20 °C       i       i       i       i       i       i       i         4.366       methyl isobutyl ketone + ethyl acetate (1:) + distilled water, GrIB7       +40 °C       i <t< td=""><td>4.359</td><td>methyl diglycol</td><td></td><td>+20 °C</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td></t<>	4.359	methyl diglycol		+20 °C			0				
4364methyl lglycol acetate+20 °Cionionionionion4365methyl hexalin+20 °Cion6060601010104366methyl iso amyl ketone+20 °C000000101010104367methyl iso amyl ketone + ethyl acetate (1:) + distilled water, GrIB7+40 °C100010101010104368methyl metharbylate+20 °C10001010101010104369methylen chloride H-MD Gest.+20 °C101010101010104370menethylenglycolthrough the MTB+20 °C101010101010104370menethylenglycol distorit turpentine+20 °C1010101010101010104373monoethylenglycol410 °C10	4.363	methyl ethyl ketone MEK		+20 °C	0		0				
4.365       methyl hexalin       +20 °C       V       V       V       V       V         4.366       methyl iso amyl ketone       +101 °C       V       V       V       V       V       V         4.366       methyl iso amyl ketone       +101 °C       V	4.364	methyl glycol acetate		+20 °C			0				
A367       methyl isobutyl ketone + ethyl acetate (1:1) + distilled water, Gr IB7       +40 °C       0       0       24.       0       0         4.367       methyl methacrylate       +20 °C       244       244       244       244       244       244         4.369       methyl methacrylate       +20 °C       24.       0       0       24.       24.       24.       24.         4.369       methyl enchloride + HyO dest.       +20 °C       24.       0       0       0       0       0       0       0         4.370       methylen chloride       +10 Odst.       +20 °C       4.       4.       +4.       +4.       4.       4.       4.4         4.370       monoethylenglycol       +50 °C       4.       4.       +4.       14.       14.       14.         4.371       monoethylenglycol       +4.       +4.       +4.       +4.       14.       14.         4.373       motor fuel, lead-free       20 °C       4.       4.       4.       14.       14.       14.       14.         4.407       motor fuel, lead-free, containung methanol acc EU-Reg.       +20 °C       14.       14.       14.       14.         4.400 <td< td=""><td>4.365</td><td>methyl hexalin methyl iso amyl ketope</td><td></td><td>+20 °C</td><td></td><td></td><td>6-</td><td></td><td></td><td></td><td></td></td<>	4.365	methyl hexalin methyl iso amyl ketope		+20 °C			6-				
4.368       methyl methacrylate       +20 °C       24+ <td< td=""><td>4.367</td><td>methyl isobutyl ketone + ethyl acetate (1:1) + distilled water</td><td>r, Gr.IB7</td><td>+40 °C</td><td>0</td><td>0</td><td>24-</td><td>0</td><td>0</td><td></td><td></td></td<>	4.367	methyl isobutyl ketone + ethyl acetate (1:1) + distilled water	r, Gr.IB7	+40 °C	0	0	24-	0	0		
4.369methyl tertiär butyl ether MTB+20 °Cic </td <td>4.368</td> <td>methyl methacrylate</td> <td></td> <td>+20 °C</td> <td>24+</td> <td>24+</td> <td>24+</td> <td></td> <td></td> <td></td> <td></td>	4.368	methyl methacrylate		+20 °C	24+	24+	24+				
4.362       methylene chloride + hgo dest.       +20 °C       I       I       III         4.361       methylene chloride       +20 °C       I       I       III         4.370       mineralic spirits of turpentine       +20 °C       III       III       III         4.371       monoethylenglycol       +50 °C       ++       ++       III       III         4.372       monostyrol       +20 °C       III       ++       ++       ++       ++         4.373       motor fuel, lead-free       100 (IIII)       ++       ++       ++       ++       ++         4.405       motor fuel, lead-free, containung methanol acc EU-Reg.       +20 °C       IIII       +++       ++       ++         4.404       motor fuel, Super, lead-free       +100 °C       IIIII       IIIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4.369	methyl tertiär butyl ether MTB		+20 °C			24+				
4.370       mineralic spirits of turpentine       +20 °C       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	4.362	methylen chloride + $H_2O$ dest. methylene chloride		+20 °C		0	0				
4.371monoethylenglycol+50 °C++++++IIII4.372monostyrol+20 °CIIIIIIIIIIIIIIIIII4.373motor and gear oil, used (IB 4c)+40 °C++IIIIIIIIIIIIIIIIIII4.407motor fuel, lead-free+20 °CII	4.370	mineralic spirits of turpentine		+20 °C			++				
4.3/2       monostyrol       +20 °C       iv       ++       iv       iv         4.3/3       motor and gear oil, used (IB 4c)       +40 °C       ++       iv       iv       iv         4.3/3       motor fuel, lead-free       +te       +0 °C       ++       iv       iv       iv         4.400       motor fuel, lead-free, containung methanol acc EU-Reg.       +20 °C       iv       iv       iv       iv       iv         4.401       motor fuel, super, lead-ontaining       +20 °C       iv       iv       iv       iv       iv       iv         4.402       motor fuel, super, lead-free, containung methanol acc EU-Reg.       +20 °C       iv       iv       iv       iv       iv         4.403       motor fuel, super, lead-free, containung methanol acc EU-Reg.       +20 °C       iv       iv       iv       iv       iv         4.374       motor fuel, super, lead-free, containung methanol acc EU-Reg.       +20 °C       iv       iv       iv       iv       iv         4.375       m-Toluidin       tsed       iv       iv       iv       iv       iv       iv       iv         4.376       m-Vylene       H20 Od stilled       iv       iv       iv       iv       <	4.371	monoethylenglycol		+50 °C	++	++	++				
4.407       motor fuel, lead-free       100 0540 (10 40)       140 0 0       140 0 0       140 0 0       140 0 <td>4.372</td> <td>monostyrol</td> <td></td> <td>+20 °C</td> <td>1.1</td> <td></td> <td>++</td> <td>1.1</td> <td>+</td> <td></td> <td></td>	4.372	monostyrol		+20 °C	1.1		++	1.1	+		
4.400       motor fuel, lead-free, containing methanol acc EU-Reg.       +20 °C       I       I       I       I         4.401       motor fuel, Super, lead-containing       +20 °C       I       I       I       I       I         4.402       motor fuel, Super, lead-containing       +20 °C       I       I       I       I       I         4.403       motor fuel, Super, lead-free, containing methanol acc EU-Reg.       +20 °C       I       I       I       I       I         4.374       motor oil, used       +20 °C       I       I       I       I       II         4.375       m-Toluidin       used       +20 °C       I       I       II       III         4.376       m-tylene       +120 distilled       +20 °C       III       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4.3/3	motor and gear on, used (IB 40) motor fuel, lead-free		+40 °C +20 °C	++		++	++	+		
4.411motor fuel, Super, lead-containing+20 °CIIIIIII4.402motor fuel, Super, lead-free, containung methanol acc EU-Reg.+20 °CIIIIII4.374motor fuel, super, lead-free, containung methanol acc EU-Reg.+20 °CIIIIII4.374motor fuel, super, lead-free, containung methanol acc EU-Reg.+20 °CIIIIII4.375m-Toluidin+20 °CIIIIIIIIII4.376m-Xylene + H2O distilled+20 °CIIIIIIIIIII4.377m-Xylene + H2O distilled+20 °CIIIIIIIIIIIII4.378m-Xylene + NaCl 0.5 %+20 °CIIIIIIIIIIIIIIIIIIIIII4.384Nad-Solvenat 160 (aliphate)+20 °CIII	4.408	motor fuel, lead-free, containung methanol acc EU-Reg.		+20 °C			++				
4.403       motor tuel, Super, lead-free, containung methanol acc EU-Reg.       +20 °C       ice       ++       ice       ice         4.410       motor fuel, Super, lead-free, containung methanol acc EU-Reg.       +20 °C       ice       ++       ice       ice         4.374       motor oil, used       ++       ++       ++       ++       ++       ++       ++       ++         4.375       m-Toluidin       +20 °C       ice       ice       ice       ice       ice       ice       ice         4.375       m-Toluidin       +20 °C       ice       ice       ice       ice       ice       ice       ice         4.375       m-tylene       +120 °C       ice       ice       ice       ice       ice       ice       ice         4.375       m-xylene       +120 °C       ice       ice       ice       ice       ice       ice       ice         4.375       m-xylene + NaCl 0.5 %       ice	4.411	motor fuel, Super, lead-containing		+20 °C			++				
4.374       motor rol, used       rec containing methalic acc conteg.       r20 °C       r       r       r       r       r         4.374       motor rol, used       r20 °C       r	4.409	motor fuel, Super, lead-free	Por	+20 °C			++				
4.375       m-Toluidin       +20°C       iv       iv<	4.374	motor oil, used	veg.	+20 °C			++	++	++		
4.376       m-xylene       +20°C       ++       2++       ++       ++       1         4.376       m-xylene + H2O distilled       +20°C       48+       1++       36+       1         4.377       m-xylene + NaCl 0.5%       +20°C       48+       1++       36+       1         4.387       m-xylene + NaCl 0.5%       +20°C       1+       36+       1       1         4.388       nahchologiaphate)       +20°C       1+       1+       1+       1+         4.385       nahchal CON5       +20°C       1+       1+       1+       1+       1+         4.385       n-hexane       +20°C       1-       1+       1+       1+       1+         4.386       n-hexane       +20°C       1-       1+       1+       1+       1+         4.387       nito (2)-N-N-dimethylanilin       +20°C       1-       1+       1+       1+       1+         4.387       n-hexane       +20°C       1-       1+       1+       1+       1+         4.388       n-hexane       +20°C       1-       1+       1+       1+       1+         4.389       n-hexane       1+       1+       1+ <td>4.375</td> <td>m-Toluidin</td> <td></td> <td>+20 °C</td> <td></td> <td></td> <td>6-</td> <td></td> <td></td> <td></td> <td></td>	4.375	m-Toluidin		+20 °C			6-				
4.377 m-xytene + H2O distilled       +20 °C       48+       14+       ++       56+         4.378 m-xytene + NaCl 0.5 %       +20 °C       6       6+       56+       56+         4.384 Nad-Solvenat 160 (aliphate)       +20 °C       6       6+       ++       ++       6+         4.385 nabha CCN 5       +20 °C       6       6+       ++       ++       ++       ++         4.379 n-heptane       +20 °C       6       6+       ++       ++       ++       +         4.386 n-hexane       +20 °C       6       6       ++       ++       10       10         4.387 nitro (2)-N-N-dimethylanilin       +20 °C       6       6       14+       ++       14+         4.388 n-hexane       +20 °C       6       5       14+       ++       14+         4.388 n-hexane       +20 °C       6       5       14+       14+       14+         4.389 n-methylpyrrolidon       +20 °C       6       5       14+       14+       14+         4.389 n-methylpyrrolidon       +20 °C       6       6       6       14+       14+       14+	4.376	m-xylene		+20 °C	++	24+	++	++			
4.384     Nad-Solvenat 160 (aliphate)     +20 °C      ++     +       4.385     naphtha CCN 5     +20 °C      ++     ++       4.379     n-heptane     +20 °C      ++     ++       4.386     n-hexane     +20 °C      ++     ++       4.387     nitro (2)-N-N-dimethylanilin     +20 °C       ++     ++       4.387     nemthylpyrrolidon     +20 °C	4.378	m-xylene + H2O distilled m-xylene + NaCl 0.5 %		+20 °C	48+	14+	++	36+			
4.385       naphtha CCN 5       +20 °C       I       ++       ++       I         4.379       n-heptane       +20 °C       I       ++       ++       I         4.386       n-hexane       +20 °C       I       I+       I+       I         4.387       nitro (2)-N-N-dimethylanilin       +20 °C       I       I       III         4.380       n-methylpyrrolidon       +20 °C       I       III       III	4.384	Nad-Solvenat 160 (aliphate)		+20 °C			++	501			
4.379 n-heptane       +20 °C       ++       ++       ++         4.386 n-hexane       +20 °C       ++       ++       ++         4.387 nitro (2)-N-N-dimethylanilin       +20 °C       27+       -         4.380 n-methylpyrrolidon       +20 °C       0       0       0	4.385	naphtha CCN 5		+20 °C			++	++			
4.380     nethylpyrrolidon     +20 °C     0     +1     +1       4.382     nitro (2)-N-N-dimethylanilin     +20 °C     0     27+     27+       4.382     n-methylpyrrolidon     +20 °C     0     0     0	4.379	n-heptane		+20 °C			++	++			
4.38C n-methylpyrrolidon +20 °C 0 0 0	4.386	nitro (2)-N-N-dimethylanilin		+20 °C			27+	++			
	4.380	n-methylpyrrolidon		+20 °C	0		0	0			

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4 701	4. Organic media	Conc.	Temp.	<u> </u>	15	<u> </u>	<u> </u>	/ 🏹	15	{
4.388	nonane		+40 °C	0		++	0			
4.389	nonylphenoloxethylat		+20 °C			1-				
4.382	n-pentane	95 %	+20 °C			++	++			
4.383	n-propylacetate		+20 °C	++	++	++	++			1
4.23	octadecanol (Nanol 18-99)		+20 °C	++		++				
4.398	octadecanol (Nanol 18-99)		+50 °C	++		++				
4.399	octadecanol (Nanol 18-99)		+80 °C	++		++				
4.400	octane		+20 °C			++	++			
4.401	octanol (Nanol 8-99)		+20°C	24-	3-	++				
4.403	octylacidbased polyester (plastiziser)		+20 °C			++				
4.394	o-nitroanisole		+20 °C			13-				
4.395	o-nitrofluoro-benzene		+20 °C			13-				
4.396	o-nicrophenetoi orange terpene, colourless + H2O distilled		+20 °C			Z/+ ++				
4.404	orange terpene, yellowish + H2O distilled		+20 °C			++				
4.412	o-xylene		+20 °C			++	++			
4.416	pentanol		+20 °C		6	++	++			
4.417	pentanphosphonat DPPP		+20 °C	0	0	0				1
4.419	perchloroethylene + H2O distilled		+20 °C			24+				
4.420	perchloroethylene, anhydrous		+20 °C			++				
4.390	petrol, containung methanol acc EU-Reg.		+20 °C			++				
4.392	petrol, lead-containing		+20 °C			++				
4.391	petrol, lead-free petroleum		+20 °C			++	36+			
4.422	phenothiacin	i. Subst.	+20 °C		++	++				
4.423	phenylglycid-ether		+20 °C			0				
4.424	phthalic-acid based polyester (plastiziser)		+20 °C			++				1
4.561	plastiziser (Hordaflex LC 50) plastiziser PM		+20 °C			++				
4.563	plastiziser TR		+20 °C			++				
4.414	p-nitro benzoic acid ethyl ester		+100 °C			0				
4.413	p-nitroanisol PNA		+80 °C	0		1+				
4.425	polyacrylamide polyadinat	6%	+40 °C			36+				1
4.420	polyalyal		+50 °C			24+				
4.430	polypropylenglycol		+20 °C			++				
4.429	propylene carbonate		+20 °C	6-	++	++				
4.430	propylene glycol		+20 °C			++				
4.432	p-xylene		+20 °C			++	++			
4.433	pyrolysis petrol MUV 1453		+20 °C	++		++	++			
4.436	raw alkylat R 301+ leach, temperature cycling biweekly		+20°C/+80°C			12+				
4.437	raw alkylat V 104+ leach, temperature cycling biweekly		+20°C/+80°C	~		12+				
4.438	raw penzene ricinus oil OL-220		+20 °C	0	++	++				
4.435	ricinus oil OL-220		+50 °C		++	++				1
4.566	rubbing alcohol		+20 °C			++				
4.451	Sangajol (white spirit, turpentine)		+20 °C			++				
4.457	sinamél slop-oil		+20 °C			++				
4.453	soft soap, pH 7	5 %	+20 °C		++	5-				
4.460	solvay-oil + H2O distilled		+20 °C			++				
4.461	solvent 100/140 (mixture of aliphates)		+20 °C		++	++				1
4.462	solvent 100/140 + H2O distilled (mixture of aliphates)		+20 °C			++				
4.463	solvent 80/110 (aliphate)		+20 °C			++				
4.465	solventnaphta CNN 5 (Shell)		+20 °C			++				
4.466	Solvesso 100		+20 °C			++				
4.467	Solvesso 150		+20 °C		<u>_</u>	++				
4.459	spezial benzin 100/125 (white spirit)		+20 °C		0-	++				
4.469	spezial benzin 100/140 (white spirit)		+20 °C			++				

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4. Organic media	Conc	Temp		/ 🕯	2/ 3	2/ 2	°/ 🖄	] / Š	/
4 470 spezial benzin 30/75 (white spirit)	conc.	+20 °C	<u> </u>		++				
4.471 spezial benzin 35/80 (white spirit)		+20 °C			++				
4.472 spezial benzin 60/140 (white spirit)		+20 °C			++				
4.473 spezial benzin 60/80 (white spirit)		+20 °C			++				
4.474 spezial benzin 60/95 (white spirit)		+20 °C			++				
4.475 spezial benzin 63/80 (white spirit)		+20 °C			++				
4.476 spezial benzin 65/70 (white spirit)		+20 °C			++				
4.477 spezial benzin 80/110 (White spirit)		+20 °C			++				
4.479 spiritus, ethanil	conc	+20 °C	0	3-	1-				
4.500 synthetic oil ED 62/36 (SHC 630)	conc.	+20 °C	Ŭ	++	++				
4.501 synthetic oil ED 62/36 (SHC 630)		+70 °C		++	++				
4.505 Terapin (white spirit)		+20 °C			++				
4.516 tetradecanol		+20 °C	++		++				
4.517 tetradecanol		+50 °C	++		24+				
4.518 tetradecanol		+80 °C	++		24-				
4.519 tetrahydrothiophene		+20 °C			1-				
4.520 tetralin		+20 °C			12-				
4.521 tetralin + H2O distilled		+20 °C	40.		12-				
4.522 toluono		+20 °C	48+		++	++			
+.525 toluene 1.524 toluene + H2O distilled		+20 °C	++		++	++			
4.525 transformer oil Energol IHS-A inhibitert (RP)		+20 °C	++		++				
1.526 transformer oil, Energol IS-P (BP)		+20 °C	++		++				
1.527 transformer oil, O/ex JS 2223 (BP)		+20 °C	++		++				
I.528 transformer oil, RWE		+20 °C	++		++				
4.529 transformer oil, Shell		+20 °C	++		++				
4.530 transformer oil, Technol Basisöl R 12		+20 °C	++		++				
4.531 transformer oil, Technol US 3000		+20 °C	++		++				
4.532 tributylphosphate (plastiziser)		+20 °C		0	0				
4.533 trichlorethylene		+20 °C	0		3-				
4.534 trichlorethylene + H2O distilled		+20 °C			12-				
4.535 trichlorethylphosphate (plastiziser)		+20°C	++	++	++				
4.537 triethylenglycol (triglycol)		+50 °C	6-	12-	12-				
4.538 trikresylphosphat (plastiziser)		+20 °C	-		++				
4.539 trimethylbenzene		+20 °C	++	++					
4.540 trioctylphosphat		+20 °C			++				
4.179 turbine fuel F 40		+20 °C			++				
4.181 turbine fuel high flash jet-fuel		+20 °C			++				
4.182 turbine fuel JP 1		+20 °C			++	++			
4.185 turbine fuel JP 4 + H <sub>2</sub> O dest.		+20 °C			++	++			
HIBO LUPDINE TUEL JP 5		+20 °C			++	++			
4.188 turbine fuel JP 7		+20 °C			++	++			
1.189 turbine fuel JP 7 + H <sub>2</sub> O dest		+20 °C			++	++			
1.190 turbine fuel JP 7 + $H_2O$ dest.		+40 °C			++	++			
4.174 turbine fuel Avcat		+20 °C			++				
4.175 turbine fuel Avtag		+20 °C			++				
4.176 turbine fuel Avtur		+20 °C			++				
1.177 turbine fuel F 34		+20 °C			++				
1.178 turbine fuel F 35		+20 °C	1		++				
4.180 turbine fuel F 44		+20 °C			++				
4.183 turbine fuel JP 1 + H2O distilled		+20 °C			++	++			
+.104 turbine fuel JP 4 1101 turbine fuel JP 8 (turbe let A1) L demineralise twetter (	IR 2)	+20 °C			++	++			
+.131 turbine rue JP o (type Jet AI) + demineralised water ( 192 turbine fuel JP 8 (type Jet A1) + demineralised water (	IB 2)	+20 °C	24-		++	++			
4.193 turbine fuel kerosene Jet-A	10 2)	+20 °C	24-		++	++			
4.194 turbine fuel low volatility		+20 °C			++				
4.195 turbine fuel widecut Jet-B		+20 °C			++				
4.506 turpentine oil		+20 °C			24-				
4.29 turpentine oil, destillation		+20 °C			24-				
4.10 urea solution (Ad blue)	32,50 %	+20 °C			++	++	++		
4.11 urea solution (Ad blue)	32,50 %	+40 °C			++	++	++		
4.22 lused oil, testing mixture		+20 °C			++	++			
4.23 used oil, testing mixture		+40 °C	1	l	++	++	I	I	

					r. Diate 333.	1.0 Jate . 26 EG H	-Plate PHS	1. Plate 130 H5.4	1.00 ate 200	Deles 14 DH
	4. Organic media	Conc.	Temp.	1 9	/ ని	/ ని	/ จั	/ ని	/ ని	/
4.560	vinylacetate		+20 °C	0	0	24-				
4.564	white oil		+20 °C			++				
4.507	white spirit		+20 °C			++	++			
4.508	white spirit + butyglycol 85:15		+20 °C			++				
4.509	white spirit + H2O distilled		+20 °C			++				
4.510	white spirit + NaCl 0,5%		+20 °C			++				
4.511	white spirit 135/180		+20 °C			++	36+			
4.512	white spirit 155/185		+20 °C			++	36+			
4.513	white spirit 180/200		+20 °C			++	36+			

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	5. Foodstuff	Conc.	Temp.	/ ä / ä	้/ จ้	/ 🄊	/ 3	13
5.4	apple juice		+20 °C	++				++
5.5	apple juice concentrated		+20 °C	++				++
5.6	apple juice concentrated		+70 °C	1-				1-
5.7	apricot pulp, sulfurdioxide added		+20 °C	++				++
5.8	beer		+20 °C	++				++
5.23	curdled milk, clabber		+20 °C	++				++
5.11	currant juice		+20 °C	++				++
5.2	ethanol, pure	50 %	+20 °C	24+	24+			
5.3	ethanol, pure	96 %	+20 °C	3-	1-			3-
5.9	glutamate-flavour		+20 °C	++	++			++
5.10	glutamate-flavour		+70 °C	1-	12-			
5.33	grape juice, red		+20 °C	++				
5.24	lard		+20 °C	++				++
5.14	margarine (Rama)		+20 °C	++				++
5.13	mash		+50 °C	++	++			++
5.34	milk		+20 °C	++				++
5.16	mineral water		+20 °C	++				++
5.15	molasse, pH=5-6		+70 °C	++	++			
5.30	mustard		+20 °C	3-				
5.17	olive oil		+40 °C	++	++		++	++
5.18			+20 °C	++				++
5.19 5.75	orange juice, concentrated		+70 °C	6-				
0.35 E 77	rod wipo		+20 °C	++	241			++
0.00 5 01		75.0/	+20 °C	++	24+			TT
ວ.21 5 ວາ	sauerkraut	/3%	+20 °C	++				++
5.22 5.26	sova bean oil		+70 °C	12+				6-
5.20 5.25	sparkling wine		+20 °C	++				++
5.23 5.12	spirits of grain	42.%	+20 °C	++	++			
5.27	sunflower oil	72 /0	+20 °C	++				++
5.32	tomato juice		+20 °C	++				++
5.31	tomato ketchup		+20 °C	12-				
5.28	vegetable oil		+20 °C	++				++
5.29	vegetable oil		+80 °C	6-				3-
5.37	whisky (Seagram's low wines)	65 %	+20 °C	24+				
5.36	wine, white		+20 °C	++				++

## CHEMICAL RESISTANCE OF INTERNAL LININGS FOR TANKS, VESSELS AND PIPELINES

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