

pure[11]-Nr.: 1105518, Marke:

## Eigenschaften

## Empfohlene Reinraumklassen

ISO

GMP



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## Material

-

## Verpackung

- Box

## Produktvarianten

**pure¹¹-Nr.: 1105518,**

**pure¹¹-Nr.: 1105518RD10, Chemiehandschuhe Camapren 722**

Farbe: Rot; Größe: 10 / VE: 10PAAR

**pure¹¹-Nr.: 1105518RD11, Chemiehandschuhe Camapren 722**

Farbe: Rot; Größe: 11 / VE: 10PAAR

**pure¹¹-Nr.: 1105518RD7, Chemiehandschuhe Camapren 722**

Farbe: Rot; Größe: 7 / VE: 10PAAR

**pure¹¹-Nr.: 1105518RD8, Chemiehandschuhe Camapren 722**

Farbe: Rot; Größe: 8 / VE: 10PAAR

**pure¹¹-Nr.: 1105518RD9, Chemiehandschuhe Camapren 722**

Farbe: Rot; Größe: 9 / VE: 10PAAR

# Camapren® 722





## Einsatzgebiete

- Arbeiten in Laborbereichen
- Chemische Industrie
- Arbeiten in Galvanikbereichen
- Automobilindustrie
- Getränkeindustrie

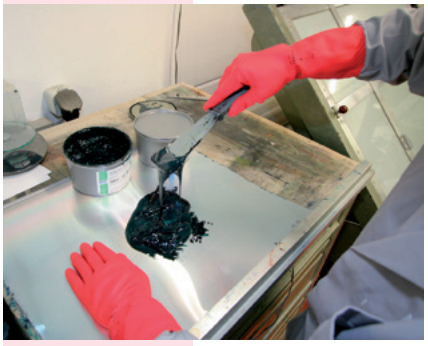
## Eigenschaften und Vorteile

- sehr gutes Feingefühl
- gute Griffigkeit bei fettigen und öligen Teilen
- hohe Flexibilität bei tiefen Temperaturen
- hohe Elastizität
- angenehmer Tragekomfort

| | |
|---|---|
| **Artikel-Nr.** | **722** |
| **Name** | Camapren® 722 |
| **Material** | Chloropren, Naturlatex |
| **Variante** | Stulpe, Profilierung, velourisiert |
| **Länge (mm)** | 290-310 |
| **Gesamtschichtstärke (mm)** | 0,6 ± 0,1 |
| **Farbe** | rot |
| **Größe** | 7, 8, 9, 10, 11 |
| **Einstufung** | Kategorie III |

EN 388:2016 — 1111 X | ISO 374-1:2016/Typ A — AKLMOT | ISO 374-5:2016 — Virus | EN 421





## Besonderheiten

- AQL < 0,65
- Baumwollvelourisierung
- Stretchrand
- Zulassung nach EN 421 (radioaktive Kontamination)

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by Honeywell

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Honeywell

# Die Chemische Beständigkeitsliste




KCL
by Honeywell

# Die Chemische Beständigkeitsliste

| Quell-beständigkeit | | | | | | Substanz | | Permeationszeit/Level | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Naturlatex | | Chloro-pren | Nitril/ Chloro-pren | Nitril | | | | Fluor-kautschuk | Butyl | |
| NR | CR | CR NBR | NBR | FKM | IIR | Chemikalie | Zustand | NR | NR | CR | CR NBR | NBR | NBR | NBR | NBR | FKM | IIR | IIR |
| | | | | | | | | 395 403 | 450, 451 706 708 | 720, 722 723, 725 726 | 717 | 730, 732 733, 836 736-739 | 740, 741 742, 757 759 | 743 | 754 | 890 | 897 | 898 |
| - | 0 | - | 0 | 0 | + | 1-Methoxy-2-propanol | flüssig | 4 | 2 | 2 | 3 | 4 | B | 1 | 3 | 4 | 6 | 6 |
| - | 0 | - | 0 | 0 | + | 1-Methoxy-2-propylacetat | flüssig | 3 | 1 | 1 | 3 | 3 | A | B | 2 | 3 | 6 | 6 |
| - | 0 | 0 | - | 0 | + | 1-Methyl-2-Pyrrolidon | flüssig | 5 | 2 | 3 | 3 | 2 | A | B | 1 | 3 | 6 | 6 |
| - | 0 | + | + | + | - | 1,1,2-Trichlortrifluorethan | flüssig | 1 | 0 | 5 | 4 | 6 | 1 | 1 | 2 | 6 | 1 | 2 |
| - | - | - | - | - | - | 1,2-Epoxyethan (Ethylenoxid) | flüssig | B | A | A | A | A | 0 | 0 | 0 | B | 1 | 2 |
| - | - | - | - | - | - | 1,2-Epoxypropan (Propylenoxid) | flüssig | B | A | A | A | A | 0 | 0 | A | B | 1 | 2 |
| + | + | + | + | + | + | 1,2-Propandiol | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | 0 | 2-Ethylhexylacrylat | flüssig | 2 | 1 | 1 | 5 | 6 | 1 | 1 | 2 | 6 | 2 | 3 |
| - | 0 | 0 | 0 | + | + | 2-Mercaptoethanol | flüssig | 3 | 2 | 4 | 4 | 4 | 1 | 1 | 3 | 6 | 6 | 6 |
| - | - | - | 0 | 0 | - | 2-Methoxy-2-Methylpropan | flüssig | 1 | B | B | 2 | 4 | A | 1 | 4 | 3 | 2 | 2 |
| - | - | - | - | - | 0 | 3-Hexanon | flüssig | 1 | B | 1 | 1 | B | 0 | 0 | A | B | 3 | 3 |
| - | - | - | - | - | 0 | 4-Heptanon | flüssig | 1 | A | 1 | 1 | A | 0 | 0 | A | B | 3 | 3 |
| - | - | - | - | - | + | Acetaldehyd | flüssig | 1 | 1 | 1 | 1 | A | 0 | 0 | A | B | 6 | 6 |
| - | - | - | - | - | + | Aceton p.a. | flüssig | 2 | 1 | 1 | 1 | B | A | A | A | B | 6 | 6 |
| - | - | - | - | - | 0 | Aceton/Toluol (50:50) | flüssig | 1 | A | A | B | B | 0 | A | A | 1 | 2 | 3 |
| - | 0 | - | - | - | + | Acetonitril | flüssig | 2 | 1 | 1 | 3 | B | A | A | A | 1 | 6 | 6 |
| - | - | - | - | - | + | ACETYLACETON | flüssig | 1 | 0 | 1 | 1 | 1 | 0 | 0 | B | 1 | 4 | 5 |
| | - | - | - | - | 0 | Acetylchlorid z.S. | flüssig | | | B | 1 | B | 0 | A | A | 1 | 3 | 4 |
| - | - | - | - | - | + | ACRYLNITRIL | flüssig | 1 | 1 | 2 | 2 | 1 | A | B | B | 1 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Acrylsäure (reinst) | flüssig | 3 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| + | + | + | + | + | + | Akkusäure (Schwefelsäure, 25 %ig) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | 0 | 0 | Alexit Verdünner / Thinner 62 farblos | flüssig | 1 | 0 | 0 | 1 | 2 | A | A | 1 | 3 | 3 | 3 |
| - | 0 | - | 0 | + | - | Alexit-Strukturlack Z 421 | flüssig | 1 | A | B | 3 | 4 | A | B | 3 | 6 | 1 | 1 |
| 0 | + | 0 | + | + | 0 | Altöl | flüssig | 4 | 3 | 3 | 5 | 6 | 1 | 1 | 2 | 6 | 3 | 4 |
| + | + | + | + | + | + | Ameisensäure, 10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | 0 | + | + | Ameisensäure, 50%ig | flüssig | 5 | 5 | 6 | 5 | 4 | 1 | 2 | 4 | 6 | 6 | 6 |
| 0 | + | + | - | + | + | Ameisensäure, 98%ig | flüssig | 5 | 3 | 6 | 6 | 1 | 0 | A | 1 | 6 | 6 | 6 |
| + | + | + | + | + | + | Amidosulfonsäure | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | 0 | + | + | + | Ammoniak (Ammoniumhydroxid), 25%ig | flüssig | 2 | 1 | 3 | 5 | 5 | 1 | 3 | 4 | 6 | 6 | 6 |
| 0 | 0 | 0 | + | + | + | Ammoniak, 10%ig | flüssig | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | 0 | + | + | Anilinöl (ATE 8006) | flüssig | 3 | B | 1 | 1 | 3 | 1 | 2 | 2 | 6 | 6 | 6 |
| - | 0 | - | + | + | + | Anisol (ATE 8004) | flüssig | 3 | 1 | 2 | 4 | 6 | 2 | 3 | 5 | 6 | 6 | 6 |
| 0 | + | 0 | + | + | 0 | Anticorit DWS | flüssig | 4 | 3 | 3 | 5 | 6 | 1 | 1 | 2 | 6 | 3 | 4 |
| + | + | + | + | + | + | Antifrogen N | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Antox 71 E | flüssig | 6 | 6 | 5 | 5 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| 0 | + | 0 | + | + | 0 | Aral Vitam (div. Reihen) | flüssig | 4 | 3 | 3 | 5 | 6 | 2 | 3 | 5 | 6 | 3 | 4 |
| + | + | + | + | + | + | ARALDIT AV 138 M (Vantico) | pastös | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | 0 | + | + | + | Bacillol plus | flüssig | 2 | 2 | 3 | 5 | 6 | 1 | 3 | 5 | 6 | 6 | 6 |
| - | + | - | + | + | - | Ballistol-Öl und Spray | aerosol | 2 | 1 | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 2 |
| - | - | - | - | + | + | Benzaldehyd | flüssig | 3 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 6 | 6 | 6 |
| + | + | + | + | + | + | BENZOESÄURE | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | - | Benzol | flüssig | 1 | A | 1 | 1 | 1 | 0 | A | B | 6 | 1 | 1 |
| - | - | - | - | 0 | + | Benzylalkohol | flüssig | 1 | 1 | 1 | 4 | 2 | B | 1 | 1 | 4 | 6 | 6 |
| + | + | + | + | + | + | Bis(2-ethylhexyl)phthalat | flüssig | 6 | 5 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Borsäure, gesättigt | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | - | Bremsenreiniger flüssig - Wirkstoff (Weicon) | flüssig | 1 | B | 1 | 5 | 6 | 1 | 1 | 2 | 6 | 1 | 2 |
| + | + | + | + | + | + | Bremsflüssigkeit DOT 4 | flüssig | 6 | 6 | 6 | 6 | 6 | 1 | 3 | 5 | 6 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Brennspiritus | flüssig | 2 | 1 | 3 | 4 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| Z | Z | Z | Z | + | Z | Brom | flüssig | A | A | A | A | A | 0 | 0 | A | 6 | | B |
| + | + | + | + | + | + | Bromwasserstoffsäure 47% | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Butylacetat (Essigsäurebutylester) | flüssig | 2 | B | 1 | 2 | 2 | A | B | 1 | 1 | 3 | 3 |
| - | - | - | - | - | + | Butylacrylat | flüssig | 1 | B | B | B | 1 | A | A | 1 | 2 | 6 | 6 |
| - | + | + | + | + | + | Butylalkohol (1-Butanol) | flüssig | 4 | 1 | 5 | 6 | 6 | 1 | 2 | 5 | 6 | 6 | 6 |
| - | - | - | - | 0 | - | Butylamin (1-Aminobutan) | flüssig | 1 | B | 1 | 2 | 1 | 0 | 0 | B | 3 | 1 | 2 |
| - | 0 | + | + | + | + | Butyldiglykol | flüssig | 3 | 2 | 5 | 4 | 6 | 1 | 2 | 4 | 6 | 6 | 6 |
| - | 0 | 0 | + | + | + | Butyldiglykolacetat | flüssig | 4 | 2 | 3 | 4 | 6 | 1 | 2 | 4 | 6 | 6 | 6 |
| - | 0 | - | 0 | 0 | 0 | Butylmethacrylat | flüssig | 2 | B | 1 | 3 | 4 | A | B | 3 | 3 | 3 | 3 |
| + | + | + | + | + | + | Calciumhydroxid | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

**Quellung nach 8 Stunden:**

+ Quellung < 7 % beständig
0 Quellung < 15 % bedingt beständig
- Quellung ≥ 15 % unbeständig
Z = Zersetzung

Level 0 0 min. Level A 1-5 min. Level B 5-10 min.
Level 1 ≥10 min. Level 2 ≥30 min. Level 3 ≥60 min.
Level 4 ≥120 min. Level 5 ≥240 min. Level 6 ≥480 min.

# Die Chemische Beständigkeitsliste

| Quellbeständigkeit | | | | | | Substanz | | Permeationszeit/Level | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Naturlatex | | Chloropren | Nitril/Chloropren | Nitril | | | | Fluorkautschuk | Butyl | |
| NR | CR | CR NBR | NBR | FKM | IIR | Chemikalie | Zustand | NR | NR | CR | CR NBR | NBR | NBR | NBR | NBR | FKM | IIR | IIR |
| | | | | | | | | 395 403 | 450, 451 706 708 | 720, 722 723, 725 726 | 717 | 730, 732 733, 836 736-739 | 740, 741 742, 757 759 | 743 | 754 | 890 | 897 | 898 |
| - | - | - | - | + | - | Chlorbenzol | flüssig | 1 | B | B | 1 | 1 | 0 | A | B | 6 | 1 | 1 |
| - | - | - | - | + | - | Chloroform (Trichlormethan) | flüssig | 1 | A | A | A | A | 0 | A | A | 6 | 1 | 1 |
| - | 0 | 0 | - | + | 0 | Chromsäure 50% | flüssig | 2 | 1 | 4 | 3 | 2 | 0 | 0 | 1 | 6 | 3 | 4 |
| + | + | + | + | + | + | Chromschwefelsäure, 10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 6 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Chromschwefelsäure, konz. | flüssig | 4 | 2 | 3 | 4 | 3 | 1 | 2 | 2 | 6 | 6 | 6 |
| - | + | - | + | + | - | Citronenöl Terpene (Terpenkohlenwasserstoffe) | flüssig | 2 | 1 | 1 | 5 | 6 | 1 | 2 | 4 | 6 | 2 | 2 |
| - | - | - | - | 0 | - | Colorex 31 Hochleistungslackentferner | flüssig | B | A | A | A | A | 0 | A | A | 4 | B | 1 |
| - | + | - | + | + | - | Cyclohexan | flüssig | 2 | B | 1 | 5 | 6 | 2 | 3 | 5 | 6 | 2 | 2 |
| 0 | + | + | + | + | + | Cyclohexanol | flüssig | 4 | 3 | 6 | 6 | 6 | 3 | 4 | 6 | 6 | 6 | 6 |
| - | - | - | - | 0 | + | Cyclohexanon | flüssig | 3 | 2 | 2 | 2 | 2 | A | B | 1 | 4 | 6 | 6 |
| - | 0 | - | 0 | + | 0 | Cyclohexylamin | flüssig | 3 | 2 | 2 | 3 | 3 | 0 | 1 | 2 | 6 | 3 | 4 |
| 0 | 0 | 0 | 0 | + | + | Diacetonalkohol (4-Hydroxy-4-methyl-2-pentanon) | flüssig | 6 | 4 | 3 | 4 | 4 | 1 | 2 | 3 | 5 | 6 | 6 |
| - | - | - | + | + | - | Dibutylamin | flüssig | 2 | 1 | 2 | 2 | 6 | 0 | 1 | 3 | 6 | 2 | 2 |
| + | + | + | + | + | + | Dibutylphthalat (DBP) | flüssig | 6 | 6 | 6 | 6 | 6 | 3 | 4 | 6 | 6 | 6 | 6 |
| - | - | - | - | 0 | - | Dichlormethan enthält Methanol <10% | flüssig | B | A | A | A | B | 0 | A | A | 4 | 1 | 1 |
| - | + | 0 | + | + | + | Dieselkraftstoff | flüssig | 4 | 2 | 4 | 5 | 6 | 4 | 6 | 6 | 6 | 4 | 5 |
| + | + | + | + | + | + | Diethanolamin | flüssig | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 4 | 6 | 6 | 6 |
| - | - | - | - | 0 | - | Diethylamin (DEA, Ethylethenamin) | flüssig | 1 | A | A | 2 | 1 | A | A | 1 | 4 | 1 | 2 |
| + | + | + | + | + | + | Diethylamine triamine | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Diethylenglycol | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | - | Diethylether (Ether) | flüssig | 1 | A | 1 | 1 | 1 | A | A | B | 2 | 1 | 1 |
| + | + | + | + | + | + | Diethylphthalat (DEP bzw. Phthalsäurediethylester) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | - | Diethylsulfid | flüssig | 1 | 0 | 0 | 1 | 1 | A | A | B | 6 | 1 | 1 |
| 0 | - | - | - | - | + | Dimethylacetamid | flüssig | 4 | 3 | 2 | 2 | 2 | A | A | 1 | 2 | 6 | 6 |
| - | 0 | - | 0 | 0 | + | Dimethylaminoethylmethacrylat (DMAEMA) | flüssig | 3 | 1 | 2 | 3 | 4 | 1 | 3 | 3 | 4 | 5 | 5 |
| 0 | - | - | - | + | + | Dimethylformamid (DMF) | flüssig | 3 | 3 | 2 | 2 | 1 | A | B | 1 | 5 | 6 | 6 |
| + | + | + | + | + | + | Dimethylphthalat | flüssig | 6 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 |
| - | 0 | - | 0 | 0 | + | Dimethylsulfat | flüssig | 2 | 1 | 2 | 3 | 4 | B | 1 | 3 | 4 | 6 | 6 |
| 0 | + | + | 0 | 0 | + | Dimethylsulfoxid (DMSO) | flüssig | 6 | 5 | 6 | 6 | 3 | 1 | 2 | 2 | 4 | 6 | 6 |
| - | - | - | - | 0 | + | Dioxan | flüssig | 3 | 1 | 2 | 2 | 1 | 0 | A | 1 | 4 | 6 | 6 |
| + | + | + | + | + | + | Diphenylamin | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | 0 | + | + | 0 | Dodecylmercaptan | flüssig | 3 | 2 | 3 | 5 | 6 | 4 | 4 | 6 | 6 | 4 | 4 |
| 0 | + | 0 | + | + | + | Dowanol PGDA (Propylenglykol-1,2-diacetat) | flüssig | 5 | 3 | 4 | 6 | 5 | 1 | 2 | 4 | 5 | 6 | 6 |
| - | + | 0 | + | + | + | Dowanol PnB ( >95% 3-Butoxy-2-propanol ) | flüssig | 4 | 2 | 3 | 6 | 6 | 1 | 3 | 5 | 6 | 6 | 6 |
| + | + | + | + | + | + | Eisen(III)-Chlorid 40% in Wasser | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Eisen(III)-chlorid-Lösung 10-40% | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Essigsäure, 10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | + | + | + | + | + | Essigsäure, 50%ig | flüssig | 5 | 4 | 6 | 6 | 6 | 2 | 4 | 6 | 6 | 6 | 6 |
| - | - | - | - | 0 | + | Essigsäure, Konz. (Eisessig) | flüssig | 3 | 2 | 2 | 2 | 2 | A | B | 2 | 3 | 6 | 6 |
| 0 | 0 | 0 | - | - | + | Essigsäureanhydrid | flüssig | 6 | 3 | 3 | 3 | 2 | A | B | 1 | 2 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Ethanol | flüssig | 2 | 1 | 3 | 4 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| + | + | + | + | + | + | Ethanolamin | flüssig | 6 | 6 | 6 | 6 | 6 | 1 | 2 | 4 | 6 | 6 | 6 |
| + | + | + | + | + | + | Ethidiumbromid 1% ig wässrig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | 0 | - | + | + | + | Ethoxypropanol | flüssig | 4 | 2 | 2 | 4 | 5 | B | 1 | 4 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Ethylacetat | flüssig | 1 | B | 1 | 1 | 1 | A | A | B | 1 | 3 | 4 |
| - | - | - | - | - | 0 | Ethylacrylat | flüssig | 1 | B | A | 1 | 1 | A | A | 1 | 1 | 3 | 4 |
| - | - | 0 | - | + | + | Ethylamin 70 % | flüssig | 2 | 2 | 3 | 2 | 1 | 0 | 0 | B | 6 | 6 | 6 |
| - | - | - | - | + | - | Ethylbenzol | flüssig | 1 | B | 1 | 1 | 1 | 0 | A | 1 | 6 | 1 | 1 |
| - | | - | - | - | 0 | ETHYLBUTYRAT KOSHER (NK, LANDA) | flüssig | 1 | B | 1 | | 1 | A | A | 1 | 2 | 2 | 3 |
| + | + | + | + | + | + | Ethylencarbonat 30%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | 0 | Ethylenchlorid (1,2-Dichlorethan) | flüssig | 1 | B | 1 | 1 | 1 | 0 | 0 | B | 6 | 3 | 4 |
| 0 | 0 | 0 | 0 | + | + | Ethylendiamin | flüssig | 4 | 3 | 3 | 4 | 3 | A | B | 2 | 5 | 6 | 6 |
| + | + | + | + | + | + | Ethylenglycol | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | 0 | + | + | + | Ethylenglycolmonobutylether; Butoxyethanol; Butylglycol | flüssig | 2 | 1 | 3 | 5 | 6 | 1 | 2 | 5 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Ethylformiat | flüssig | 1 | A | A | 1 | B | 0 | A | A | 1 | 4 | 4 |
| - | - | - | - | - | 0 | Ethylmethacrylat | flüssig | 1 | 0 | 0 | 1 | 2 | A | B | 1 | 2 | 3 | 3 |
| - | + | - | + | + | - | Exxsol D 60 | flüssig | 2 | 1 | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 2 |
| + | + | + | + | + | + | Flußsäure 15%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 4 | 5 | 6 | 6 | 6 | 6 |

**Quellung nach 8 Stunden:**

+ Quellung < 7 % beständig
0 Quellung < 15 % bedingt beständig
- Quellung ≥ 15 % unbeständig
Z = Zersetzung

Level 0 0 min. Level A 1-5 min. Level B 5-10 min.
Level 1 ≥10 min. Level 2 ≥30 min. Level 3 ≥60 min.
Level 4 ≥120 min. Level 5 ≥240 min. Level 6 ≥480 min.

# Die Chemische Beständigkeitsliste

| Quell-beständigkeit | | | | | | Substanz | | Permeationszeit/Level | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Naturlatex | | Chloro-pren | Nitril/ Chloro-pren | Nitril | | | | Fluor-kautschuk | Butyl | |
| NR | CR | CR NBR | NBR | FKM | IIR | Chemikalie | Zustand | NR | NR | CR | CR NBR | NBR | NBR | NBR | NBR | FKM | IIR | IIR |
| | | | | | | | | 395 403 | 450, 451 706 708 | 720, 722 723, 725 726 | 717 | 730, 732 733, 836 736-739 | 740, 741 742, 757 759 | 743 | 754 | 890 | 897 | 898 |
| Z | Z | Z | Z | Z | + | Flußsäure 40%ig | flüssig | 6 | 4 | 6 | 6 | 2 | B | 1 | 2 | 6 | 6 | 6 |
| - | + | + | + | + | + | Formaldehyd 37%ig (stabilisiert mit ca.10% Methanol) | flüssig | 3 | B | 5 | 6 | 6 | 1 | 3 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Formamid | flüssig | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| 0 | 0 | 0 | - | 0 | + | Gamma-BUTYROLACTON | flüssig | 4 | 3 | 4 | 6 | 2 | A | 1 | 2 | 4 | 6 | 6 |
| + | + | + | + | + | + | Glycerin | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Glysantin | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Harnstoff | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | + | 0 | + | + | 0 | Heizöl | flüssig | 4 | 3 | 3 | 6 | 6 | 4 | 6 | 6 | 6 | 3 | 4 |
| - | + | - | + | + | - | Heptan-n | flüssig | 1 | B | 1 | 6 | 6 | 2 | 3 | 4 | 6 | 1 | 1 |
| - | + | - | + | + | - | Hexan-n | flüssig | 1 | 1 | 1 | 6 | 6 | 1 | 2 | 5 | 6 | 2 | 2 |
| - | + | - | - | - | + | Hexenal (trans-2-Hexenal) | flüssig | 1 | 1 | 0 | 3 | 1 | A | A | 1 | 2 | 4 | 5 |
| - | - | - | - | + | 0 | Hydranal-Arbeitsmedium K | flüssig | 2 | A | 1 | 1 | B | 0 | A | A | 6 | 3 | 4 |
| 0 | + | 0 | + | + | + | Hydranal-Composite 5 K | flüssig | 5 | 3 | 4 | 6 | 6 | 2 | 4 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | + | Hydranal-Solvent | flüssig | 3 | 1 | 2 | 2 | 2 | B | 1 | 1 | 6 | 6 | 6 |
| - | - | - | - | + | + | HYDRANAL®-Coulomat AG | flüssig | 2 | 1 | 2 | 2 | 2 | A | 1 | 1 | 6 | 6 | 6 |
| | | | + | | + | Hydrazin | flüssig | | | | | 5 | 2 | 2 | 4 | | 6 | 6 |
| + | + | + | + | + | + | Hydrochinon | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Hydrochinonmonomethylether | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Hydroxylammoniumchlorid | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | 0 | + | + | 0 | IBS Spezialreiniger EL/EXTRA isoparaffinisches Kohlenwasserstoffgem. | flüssig | 4 | 1 | 4 | 6 | 6 | 3 | 5 | 6 | 6 | 4 | 4 |
| - | + | - | + | + | 0 | IBS Spezialreiniger PURGASOL aromatenarmes KW-Gemisch | flüssig | 3 | 1 | 2 | 5 | 6 | 4 | 6 | 6 | 6 | 3 | 3 |
| + | + | + | + | + | + | Incidin Extra (1,0%ige Lösung in Wasser) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | INCIDIN PERFECT (0,5%ige Lösung in Wasser) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Incidin Plus (0,5%ige Lösung in Wasser) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Incidur (1,0%ige Lösung in Wasser) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Iod | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | + | + | + | + | isobutylalkohol (isobutanol) | flüssig | 3 | 1 | 6 | 6 | 6 | 1 | 1 | 4 | 6 | 6 | 6 |
| + | + | + | + | + | + | Isoflex Topas NB 52 | pastös | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | - | Isooctan; 2,2,4-Trimethylpentan; Isobutyltrimethylmethan; iso-Octan | flüssig | 2 | 1 | 2 | 5 | 6 | 3 | 6 | 6 | 6 | 2 | 2 |
| - | 0 | 0 | 0 | + | + | ISOPHORON | flüssig | 4 | 2 | 4 | 4 | 4 | 1 | 1 | 3 | 5 | 6 | 6 |
| - | - | - | - | - | 0 | Isopropylacetat | flüssig | 1 | 0 | 0 | 0 | 1 | 0 | A | B | 1 | 4 | 4 |
| - | + | + | + | + | + | Isopropylalkohol (Isopropanol) | flüssig | 1 | B | 5 | 6 | 6 | 1 | 3 | 5 | 6 | 6 | 6 |
| - | + | - | + | + | 0 | JET A-1 | flüssig | 2 | B | 2 | 5 | 6 | 5 | 6 | 6 | 6 | 2 | 3 |
| + | + | + | + | + | + | Kalilauge, 10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Kalilauge, gesättigt | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Kaliumhydroxid | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | - | Kontakt 60 (Kontakt Chemie) | aerosol | 1 | B | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 2 |
| + | + | + | + | + | + | Levoxin 15 | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Loctite 243 | flüssig | 6 | 6 | 6 | 6 | 6 | 3 | 5 | 6 | 6 | 6 | 6 |
| 0 | + | + | + | + | + | Loctite 262 | flüssig | 6 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | | | | Loctite 315 | pastös | 1 | 0 | 1 | 1 | 1 | 0 | 0 | B | 2 | 2 | 3 |
| - | - | - | - | 0 | 0 | Loctite 3298 | flüssig | 1 | B | B | 1 | 2 | A | B | 1 | 3 | 3 | 4 |
| 0 | + | + | + | + | + | Loctite 511 | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | + | + | + | + | + | Loctite 601 | flüssig | 6 | 4 | 4 | | 6 | 2 | 3 | 5 | 6 | 6 | 6 |
| - | + | + | + | + | + | Loctite 620 | flüssig | 3 | 1 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Loctite 7200 (Gasket Remover/Kleb- und Dichtstoffentferner) | flüssig | 1 | A | A | A | 1 | A | A | B | 2 | 3 | 3 |
| - | + | - | + | + | - | Loctite 7386 | flüssig | 1 | B | 1 | 6 | 6 | 1 | 2 | 4 | 6 | 2 | 2 |
| - | - | - | 0 | 0 | - | Loctite 7800 | flüssig | 1 | 0 | 0 | 2 | 3 | 0 | A | 2 | 3 | 1 | 1 |
| - | - | - | - | 0 | 0 | Lösin 100 (Universal Verdünner) | flüssig | 2 | 1 | 2 | 2 | 2 | 0 | 0 | 1 | 3 | 2 | 3 |
| 0 | + | + | 0 | + | + | m-Kresol | flüssig | 3 | 3 | 6 | 5 | 3 | 1 | 2 | 3 | 6 | 6 | 6 |
| + | + | + | + | + | + | Maleinsäure, gesättigt | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Maleinsäureanhydrid | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Marlotherm S | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Methacrylsäure | flüssig | 3 | 1 | 3 | 3 | 3 | B | 2 | 3 | 6 | 6 | 6 |
| - | 0 | - | - | 0 | + | Methanol | flüssig | 1 | A | 2 | 4 | 2 | A | B | 1 | 4 | 6 | 6 |
| + | 0 | + | 0 | + | + | Methansulfonsäure (MSA) | flüssig | 6 | 6 | 6 | 3 | 3 | 1 | 2 | 3 | 6 | 6 | 6 |

**Quellung nach 8 Stunden:**

+ Quellung < 7 % beständig
0 Quellung < 15 % bedingt beständig
- Quellung ≥ 15 % unbeständig
Z = Zersetzung

Level 0 0 min. Level 1 ≥10 min. Level 4 ≥120 min.
Level A 1-5 min. Level 2 ≥30 min. Level 5 ≥240 min.
Level B 5-10 min. Level 3 ≥60 min. Level 6 ≥480 min.

# Die Chemische Beständigkeitsliste

| Quell-beständigkeit | | | | | | Substanz | | Permeationszeit/Level | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Naturlatex | | Chloro-pren | Nitril/ Chloro-pren | Nitril | | | | Fluor-kautschuk | Butyl | |
| NR | CR | CR NBR | NBR | FKM | IIR | Chemikalie | Zustand | NR | NR | CR | CR NBR | NBR | NBR | NBR | NBR | FKM | IIR | IIR |
| | | | | | | | | 395 403 | 450, 451 706 708 | 720, 722 723, 725 726 | 717 | 730, 732 733, 836 736-739 | 740, 741 742, 757 759 | 743 | 754 | 890 | 897 | 898 |
| - | - | - | - | - | + | METHYLACETAT | flüssig | 1 | B | 1 | 1 | B | 0 | 0 | A | 1 | 4 | 5 |
| - | - | - | - | - | + | Methylacrylat | flüssig | 1 | 0 | 0 | 1 | 1 | 0 | A | B | 1 | 4 | 5 |
| + | + | + | + | + | + | Methylenblau | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | + | Methylethylketon (Ethylmethylketon, 2-Butanon, MEK) | flüssig | 1 | B | 1 | 1 | B | 0 | A | A | 1 | 5 | 5 |
| - | - | - | - | - | 0 | METHYLFORMIAT | flüssig | 1 | A | A | 1 | B | 0 | A | A | 1 | 4 | 4 |
| - | - | - | - | - | + | Methylisobutylketon (MIBK) | flüssig | 1 | B | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 4 | 5 |
| - | - | - | - | - | 0 | Methylmethacrylat | flüssig | 1 | B | 1 | 1 | 1 | B | B | B | 2 | 3 | 3 |
| + | + | + | + | + | + | Methylorange (wässrig) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Methylrot | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Milchsäure, 90%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | + | 0 | + | + | 0 | Mobil DTE 25 | flüssig | 4 | 3 | 3 | 5 | 6 | 2 | 3 | 5 | 6 | 3 | 4 |
| 0 | + | 0 | + | + | 0 | Mobil Vactra Oil No. 2 | flüssig | 4 | 3 | 3 | 5 | 6 | 2 | 3 | 5 | 6 | 3 | 4 |
| + | + | + | + | + | + | Mobilcut 311 Kühlschmierst. (20% Triethanolamin,15% Butoxyethoxy-ethoxyethanol) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | + | 0 | + | + | 0 | Mobilgear 629 | flüssig | 4 | 3 | 3 | 5 | 6 | 1 | 2 | 4 | 6 | 3 | 4 |
| 0 | + | 0 | + | + | 0 | Mobilgear 630 | flüssig | 4 | 3 | 3 | 5 | 6 | 1 | 1 | 2 | 6 | 3 | 4 |
| 0 | + | 0 | + | + | 0 | Mobilmet 151 | flüssig | 4 | 3 | 3 | 5 | 6 | 1 | 1 | 2 | 6 | 3 | 4 |
| + | + | + | + | + | + | Monoethylenglykol | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | 0 | + | Morpholin | flüssig | 1 | 0 | 1 | 1 | 1 | 0 | 0 | B | 3 | 6 | 6 |
| 0 | + | 0 | + | + | 0 | Motoröl | flüssig | 4 | 3 | 3 | 5 | 6 | 2 | 3 | 5 | 6 | 3 | 4 |
| - | + | - | + | + | - | Naphthabenzin(Waschbenzin100/140) | flüssig | 2 | 1 | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 2 |
| + | + | + | + | + | + | Natriumhydroxid | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Natriumhypochlorit (12% Aktivchlor) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Natriumthiosulfat-Pentahydrat | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Natronlauge 10-30%ige Lösung | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Natronlauge 50%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Natronlauge, 0-10%ige Lösung | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Natronlauge, gesättigt | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | + | Nitrobenzol | flüssig | 3 | 2 | 2 | 2 | 2 | A | A | 1 | 6 | 6 | 6 |
| - | - | - | - | 0 | - | Nitroverdünnung 1A | flüssig | 1 | B | B | B | 1 | A | A | 1 | 3 | 2 | 2 |
| - | - | - | - | + | 0 | o-Dichlorbenzol | flüssig | 2 | 1 | 1 | 2 | 2 | A | B | 1 | 6 | 2 | 3 |
| 0 | + | + | - | + | + | o-KRESOL | flüssig | 3 | 3 | 6 | 5 | 2 | A | 1 | 1 | 6 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Omnifit 100M (Schraubensicherung) | flüssig | 6 | 4 | 6 | 6 | 6 | 2 | 5 | 5 | 6 | 6 | 6 |
| + | + | + | + | + | + | ortho-Phosphorsäure 85% | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | 0 | + | - | Ottokraftstoff Normal/Super/Super Plus/Bleifrei | flüssig | 1 | A | B | 2 | 4 | A | B | 3 | 6 | 1 | 1 |
| + | + | + | + | + | + | Oxalsäure | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | P3-galvaclean 20 | flüssig | 6 | 6 | 6 | 6 | 6 | 2 | 3 | 5 | 6 | 6 | 6 |
| + | + | + | + | + | + | P3-rinsola | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Palmitinsäure | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | | + | + | + | + | Paraffin, flüssig | flüssig | 6 | 6 | 6 | | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Paraformaldehyd | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | - | Pattex compact | flüssig | 1 | B | 1 | 1 | 1 | A | A | B | 1 | 1 | 2 |
| - | - | - | - | 0 | - | Pattex Kraftkleber Classic | flüssig | 1 | B | B | 2 | 2 | A | B | 2 | 3 | 2 | 2 |
| - | + | - | + | + | - | Pentan | flüssig | 1 | B | 1 | 5 | 6 | 1 | 1 | 2 | 6 | 1 | 2 |
| + | + | + | + | + | + | Perchlorsäure, 70% ig | flüssig | 6 | 5 | 5 | 5 | 5 | 1 | 3 | 4 | 6 | 6 | 6 |
| - | + | - | + | + | - | Petrolether 40/60 (Wundbenzin, Ligroin) | flüssig | 1 | B | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 1 |
| - | + | - | + | + | 0 | Petroleum A III (Ketrul HT) | flüssig | 2 | B | 1 | 5 | 6 | 4 | 6 | 6 | 6 | 3 | 3 |
| - | + | 0 | 0 | + | + | Phenol 40.5 (ATE 8007) | fest | 4 | 2 | 4 | 6 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| + | + | + | + | + | + | Phenolphthalein | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Phenolphthaleinlösung 1% in Ethanol | flüssig | 2 | 1 | 3 | 4 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| + | + | + | + | + | + | Phosphorsäure, gesättigt | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Phosphorsäure,10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Phosphorylchlorid (Phosphoroxychlorid, Phosphoroxidtrichlorid) | flüssig | 2 | 1 | 2 | 2 | 2 | A | 1 | 1 | 2 | 4 | 4 |
| - | - | - | - | - | 0 | Plastik 70 | aerosol | 1 | B | 1 | 1 | 1 | A | A | B | 1 | 2 | 3 |
| - | - | - | - | 0 | + | PROPIONALDEHYD | flüssig | 1 | B | 1 | 1 | B | 0 | 0 | A | 3 | 5 | 5 |
| - | 0 | - | 0 | + | + | Propionsäure | flüssig | 3 | 2 | 2 | 3 | 3 | A | B | 2 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Propylacetat (Essigsäurepropylester) | flüssig | 1 | B | 1 | 1 | 1 | A | A | 1 | 1 | 3 | 4 |
| - | + | 0 | + | + | + | Propylalkohol (1 -propanol) | flüssig | 3 | 2 | 4 | 6 | 6 | 1 | 3 | 5 | 6 | 6 | 6 |

**Quellung nach 8 Stunden:**

+ Quellung < 7 % beständig
0 Quellung < 15 % bedingt beständig
- Quellung ≥ 15 % unbeständig
Z = Zersetzung

Level 0 0 min. Level A 1-5 min. Level B 5-10 min.
Level 1 ≥10 min. Level 2 ≥30 min. Level 3 ≥60 min.
Level 4 ≥120 min. Level 5 ≥240 min. Level 6 ≥480 min.

# Die Chemische Beständigkeitsliste

| Quell-beständigkeit | | | | | | Substanz | | Permeationszeit/Level | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Naturlatex | | Chloro-pren | Nitril/ Chloro-pren | Nitril | | | | Fluor-kautschuk | Butyl | |
| NR | CR | CR NBR | NBR | FKM | IIR | Chemikalie | Zustand | NR | NR | CR | CR NBR | NBR | NBR | NBR | NBR | FKM | IIR | IIR |
| | | | | | | | | 395 403 | 450, 451 706 708 | 720, 722 723, 725 726 | 717 | 730, 732 733, 836 736-739 | 740, 741 742, 757 759 | 743 | 754 | 890 | 897 | 898 |
| - | - | - | - | 0 | - | Propylamin | flüssig | 1 | A | B | 1 | 1 | A | A | B | 3 | 1 | 2 |
| - | - | - | - | - | + | Pyridin (Heterozyklische Verbindung) | flüssig | 2 | 1 | 1 | 1 | 1 | 0 | 0 | B | 1 | 4 | 5 |
| + | + | + | + | + | + | Quecksilber | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | 0 | + | + | 0 | Rivolta M.T.X. 100 | flüssig | 2 | 1 | 3 | 5 | 6 | 3 | 5 | 5 | 6 | 3 | 4 |
| - | + | 0 | + | + | 0 | Rivolta M.T.X. 60 | flüssig | 2 | 1 | 3 | 5 | 6 | 3 | 5 | 6 | 6 | 3 | 4 |
| - | + | - | + | + | - | Rivolta S.K.D. 170 Aerosol | aerosol | 2 | 1 | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 2 |
| - | + | 0 | + | + | 0 | Rivolta S.L.X. Top | flüssig | 4 | 1 | 4 | 5 | 6 | 3 | 3 | 5 | 6 | 3 | 4 |
| - | + | - | + | + | 0 | Rivolta T.R.S. plus | flüssig | 4 | 3 | 3 | 5 | 6 | 2 | 3 | 5 | 6 | 3 | 4 |
| + | + | + | + | + | + | Salpetersäure, 10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | 0 | + | + | Salpetersäure, 50%ig | flüssig | 6 | 6 | 5 | 5 | 4 | 1 | 2 | 3 | 6 | 6 | 6 |
| Z | Z | Z | Z | Z | Z | Salpetersäure, rauchend (100%) | flüssig | B | A | A | B | B | A | A | A | 3 | 3 | 3 |
| + | + | + | + | + | + | Salzsäure 0-10% | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Salzsäure 10-20% | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | + | + | + | + | + | Salzsäure 20-30% | flüssig | 6 | 3 | 6 | 6 | 6 | 3 | 4 | 5 | 6 | 6 | 6 |
| - | - | - | - | + | - | Schwefelkohlenstoff | flüssig | A | A | A | A | B | 0 | A | A | 6 | A | B |
| + | + | + | + | + | + | Schwefelsäure 50%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | 0 | 0 | 0 | + | + | Schwefelsäure 96% | flüssig | 5 | 2 | 3 | 4 | 3 | 1 | 2 | 2 | 6 | 6 | 6 |
| Z | Z | Z | Z | + | 0 | Schwefelsäure rauchend 65% SO3 (Oleum) | flüssig | 3 | 1 | 3 | 3 | 2 | 0 | 0 | 1 | 5 | 3 | 4 |
| + | + | + | + | + | + | Schwefelsäure,10%ig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | 0 | Seevenax-Verdünner 73 | flüssig | 1 | B | 2 | 2 | 2 | A | 1 | 2 | 5 | 4 | 4 |
| 0 | + | 0 | + | + | 0 | Shell Retinax G | pastös | 4 | 3 | 3 | 5 | 6 | 1 | 3 | 5 | 6 | 3 | 4 |
| 0 | + | 0 | + | + | 0 | Shell Tellus 46 | flüssig | 4 | 3 | 3 | 5 | 6 | 2 | 3 | 5 | 6 | 3 | 4 |
| - | - | - | - | - | + | Sicomet 50 | flüssig | 1 | 0 | 2 | 2 | 1 | 0 | 0 | B | 1 | 6 | 6 |
| - | - | - | - | - | + | Sicomet 85 | flüssig | B | 0 | 1 | 2 | 1 | 0 | A | B | 1 | 2 | 3 |
| + | + | + | + | + | + | SIDOLIN | flüssig | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | SILBERNITRAT | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | - | SILICIUMTETRACHLORID | flüssig | 1 | B | 1 | 5 | 6 | 6 | 6 | 6 | 6 | 1 | 2 |
| + | + | + | + | + | + | SKYDROL LD TYPE 4 | flüssig | 6 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | - | Spezialbenzin 100/140 (aromatenfrei) | flüssig | 1 | B | 1 | 5 | 6 | 3 | 4 | 6 | 6 | 1 | 1 |
| + | + | + | + | + | + | Stearinsäure | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | - | Styrol (Phenylethen,Phenylethylen,Vinyl-benzol,Cinnamol,Ethenylbenzol) | flüssig | 1 | B | A | 1 | 2 | A | A | 1 | 6 | 1 | 2 |
| + | + | + | + | + | + | Talkum | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | 0 | Tangit PVC-U Kleber | flüssig | 1 | A | B | 1 | 1 | A | A | B | 2 | 3 | 3 |
| - | - | - | - | - | + | Tangit Reiniger PVC-U/C ABS | flüssig | 1 | B | A | 1 | A | 0 | A | A | B | 6 | 6 |
| - | 0 | 0 | 0 | + | + | TDI-Mix (2,6-TDI & 2,4 TDI, 35:65) | flüssig | 4 | 2 | 3 | 4 | 3 | 1 | 2 | 3 | 6 | 6 | 6 |
| - | - | - | - | - | - | Terokal 2444 | flüssig | 1 | B | 1 | 2 | 2 | A | B | B | 3 | 2 | 2 |
| - | + | - | + | + | 0 | tert-Butylethylether | flüssig | 1 | 1 | 1 | 5 | 6 | 2 | 2 | 4 | 6 | 2 | 3 |
| - | 0 | - | + | + | - | Tetrachlorethylen (Perchlorethylen) | flüssig | 1 | B | 1 | 4 | 5 | 1 | 2 | 4 | 6 | 1 | 1 |
| - | 0 | - | + | + | - | Tetrachlorkohlenstoff (Tetra) | flüssig | 1 | 1 | 1 | 4 | 5 | 1 | 1 | 4 | 6 | 1 | 2 |
| - | - | - | - | - | - | Tetrahydrofuran | flüssig | 1 | A | B | 1 | B | 0 | A | A | 1 | 1 | 1 |
| - | - | - | 0 | 0 | 0 | Tetramethylethylendiamin | flüssig | 1 | B | 1 | 2 | 4 | A | B | 3 | 4 | 2 | 3 |
| + | + | + | + | + | + | TEXANOL | flüssig | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Thioacetamid | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | 0 | + | 0 | + | + | Thiodiglykolsäure | flüssig | 5 | 4 | 5 | 4 | 3 | B | 1 | 2 | 6 | 6 | 6 |
| + | + | + | + | + | + | Thioharnstoff | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| + | + | + | + | + | + | Titriplex III | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | + | - | Toluol | flüssig | 1 | A | 1 | 1 | 1 | A | A | 1 | 6 | 1 | 1 |
| + | + | + | + | + | + | Topanol O | fest | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | + | Tributylphosphat | flüssig | 1 | 1 | 1 | 1 | 1 | 0 | B | 1 | 2 | 6 | 6 |
| + | + | + | - | + | + | Trichloressigsäure | fest | 6 | 6 | 6 | 5 | 2 | 0 | 0 | 1 | 6 | 6 | 6 |
| - | - | - | - | + | - | Trichlorethylen (Tri) | flüssig | 1 | A | B | 1 | 1 | 0 | A | B | 6 | B | 1 |
| + | + | + | + | + | + | Triethanolamin | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | + | - | + | + | + | TRIETHYLAMIN | flüssig | 1 | A | 1 | 5 | 6 | 1 | 2 | 4 | 6 | 4 | 5 |
| 0 | + | + | - | + | + | Trifluoressigsäure | flüssig | 6 | 4 | 6 | 5 | 1 | A | A | 1 | 6 | 6 | 6 |
| - | - | - | 0 | + | - | Trifluormethansulfonsäure | flüssig | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 6 | 0 | 0 |
| + | + | + | + | + | + | Triton (R) X-100 | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | - | - | - | - | + | Vinyl Acetate Monomer | flüssig | B | A | B | 1 | 1 | 0 | 0 | 1 | 1 | 4 | 5 |
| + | + | + | + | + | + | Wasserstoffperoxid,30%ig (Perhydrol) | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

**Quellung nach 8 Stunden:**

+ Quellung < 7 % beständig
0 Quellung < 15 % bedingt beständig
- Quellung ≥ 15 % unbeständig
Z = Zersetzung

Level 0 0 min. Level 1 ≥10 min. Level 4 ≥120 min.
Level A 1-5 min. Level 2 ≥30 min. Level 5 ≥240 min.
Level B 5-10 min. Level 3 ≥60 min. Level 6 ≥480 min.

# Die Chemische Beständigkeitsliste

| Quellbeständigkeit | | | | | | Substanz | | Permeationszeit/Level | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Naturlatex | | Chloropren | Nitril/Chloropren | Nitril | | | | Fluorkautschuk | Butyl | |
| NR | CR | CR NBR | NBR | FKM | IIR | Chemikalie | Zustand | NR | NR | CR | CR NBR | NBR | NBR | NBR | NBR | FKM | IIR | IIR |
| | | | | | | | | 395 403 | 450, 451 706 708 | 720, 722 723, 725 726 | 717 | 730, 732 733, 836 736-739 | 740, 741 742, 757 759 | 743 | 754 | 890 | 897 | 898 |
| - | + | - | + | + | - | WD-40 | flüssig | 2 | 1 | 2 | 5 | 6 | 1 | 2 | 4 | 6 | 1 | 2 |
| - | - | - | - | + | - | Xylol | flüssig | 1 | B | B | 1 | 2 | 0 | A | 1 | 6 | 2 | 2 |
| + | + | + | + | + | + | Zitronensäure, gesättigt wässrig | flüssig | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

**Quellung nach 8 Stunden:**
+ Quellung < 7 % beständig
0 Quellung < 15 % bedingt beständig
- Quellung ≥ 15 % unbeständig
Z = Zersetzung

Level 0 0 min.
Level A 1-5 min.
Level B 5-10 min.
Level 1 ≥10 min.
Level 2 ≥30 min.
Level 3 ≥60 min.
Level 4 ≥120 min.
Level 5 ≥240 min.
Level 6 ≥480 min.

**Penetration:**
Alle Chemikalienschutzhandschuhe weisen einen Penetrationslevel 3 = AQL 0,65 auf. Dies entspricht einer 100 %-Kontrolle.

**Quellung:**

| Level | Quellung | Bewertung |
|---|---|---|
| + | < 7 % | Beständig |
| 0 | < 15 % | Bedingt beständig |
| - | ≥ 15 % | Unbeständig |

**Wichtiger Hinweis:**
Die Daten in der Beständigkeitsliste wurden unter Laborbedingungen (neue Handschuhe, keine zusätzliche mechanische Belastung, Raumtemperatur) mit größter Sorgfalt und mit modernen Messmethoden ermittelt. Da die in der Praxis auftretenden Bedingungen häufig von diesen abweichen, können die Angaben nur eine Orientierungshilfe bei der Auswahl des geeigneten Chemikalienschutzhandschuhs sein. Insbesondere ersetzen sie keine Eignungstests durch den Endverbraucher.
Bei den Artikeln 738 und 739 handelt es sich um die Winterversionen von Artikel 736 und 737. Die Artikel 738 und 739 haben daher identische Permeationszeiten und Quellungseigenschaften.

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