



## Chemische Widerstandsfähigkeits-Tabellen





## Besondere Hinweise

Die Chemischen Widerstandsfähigkeits-Tabellen sind wertvolle Hilfen bei der Planung von Kunststoffrohrleitungen. Die in den Tabellen enthaltenen Angaben sind Ergebnisse aus Versuchen und praktischen Erfahrungen mit den Omniplast Rohrprogrammen aus PVC-U, PE-HD und PP. Sie sind nicht ohne weiteres auf alle Betriebsverhältnisse übertragbar. Änderungen in der Zusammensetzung des angreifenden Mediums sowie besondere Betriebsbedingungen können zu Abweichungen führen.

Bitte wenden Sie sich in speziellen Fragen an unsere Abteilung Technik.

Gewährleistungsansprüche können aus unseren Angaben nicht abgeleitet werden.

## Zeichenerklärung

|         |                              |        |                          |
|---------|------------------------------|--------|--------------------------|
| +       | = widerstandsfähig           | konz.  | = konzentrierte Lösung   |
|         | = praktisch widerstandsfähig | ger.   | = geringe Konzentration  |
| ○       | = bedingt widerstandsfähig   | gebr.  | = Gebrauchskonzentration |
|         | = wenig widerstandsfähig     | übl.   | = üblich, handelsüblich  |
| -       | = nicht widerstandsfähig     | verd.  | = verdünnte Lösung       |
| Keine   |                              | w.     | = wäßrige Lösung         |
| Angaben | = nicht geprüft              | ges.   | = kalt gesättigte Lösung |
| jd      | = jede                       | w.ges. | = warm gesättigte Lösung |
|         |                              | sp.    | = Spuren                 |





## Chemische Widerstandsfähigkeit

| Angreifendes Medium                    | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|--|-----------------|-------|------|------|-------|------|------|------|------|-------|
|  |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Abgase, fluorwasserstoffhaltig         | sp.             | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Abgase, kohlenoxidhaltig               | jd              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Abgase, kohlenensäurehaltig            | jd              | +     | +    | +    |       |      |      |      |      |       |
| Abgase, nitrorehaltig                  | sp.             | +     | +    | +    | +     | +    | +    | +    | ○    |       |
| Abgase, oleumhaltig                    | ger.            | +     |      |      |       |      |      |      |      |       |
| Abgase, salzsäurehaltig                | jd              | +     | +    | +    | +     | +    | +    | +    | ○    |       |
| Abgase, schwefelsäurehaltig (feucht)   | jd              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Abgase, schwefeltrioxidhaltig          | jd              | ○     | -    | -    | +     | +    | +    | +    | ○    |       |
| Abgase, schwefeldioxidhaltig           | ger.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Abgase, stickoxidhaltig                | jd              | +     | +    |      |       |      |      |      |      |       |
| Acetaldehyd                            | 100             | -     |      |      | +     |      |      | ○    |      |       |
| Acetaldehyd                            | 40              | ○     | -    |      | +     | +    | ○    | +    | +    | -     |
| Acetaldehyd und Essigsäure             | 90/10           | ○     |      |      |       |      |      |      |      |       |
| Aceton                                 | sp.             | -     |      |      | +     | +    | +    | +    | +    |       |
|  | 100             | -     |      |      | +     | +    | +    | +    | +    |       |
| Acrylsäureethylester                   | 100             | -     |      |      |       |      |      | -    |      |       |
| Adipinsäure                            | ges.            | +     | +    | -    | +     | +    | +    | +    | +    |       |
| Akkusäure                              |                 | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Alaun, w.                              | 50              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Alaune, w.                             | 50              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Allylalkohol                           | 96              | ○     | -    | -    | +     | +    | +    | +    | +    |       |
| Aluminiumchlorid, w.                   | 10              | +     | +    | +    | +     | +    | +    | +    | +    |       |
|  | ges.            | +     | +    | +    | +     | +    | +    | +    | +    | ○     |
| Aluminiumsulfat, w.                    | 10              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|  | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Ameisensäure, w.                       | bis 50          | +     | +    | ○    | +     | +    | +    | +    | ○    |       |
| Ameisensäure                           | 100             | +     | ○    | -    | +     | +    | +    | +    | ○    |       |
| Ammoniak, flüssig                      | 100             | ○     |      |      |       |      |      |      |      |       |
| Ammoniak, gasförmig                    | 100             | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Ammoniakwasser                         | w.ges.          | +     | +    | ○    |       |      |      |      |      |       |
| Ammoniumacetat, w.                     | jd              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Ammoniumcarbonat, w.                   | 50              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Ammoniumchlorid, w.                    | 10              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|  | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Ammoniumfluorid, w.                    | bis 20          | +     | -    | ○    |       |      |      |      |      |       |
| Ammoniumnitrat, w.                     | 10              | +     | +    | ○    | +     | +    | ○    | +    | +    |       |
|  | ges.            | +     | +    | +    | +     | +    | ○    | +    | +    |       |
| Ammoniumphosphat, w.                   | jd              | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Ammoniumsulfat, w.                     | 10              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|  | ges.            | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Ammoniumsulfid, w.                     | jd.             | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Amylalkohol, rein (Gärungsamylalkohol) |                 | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Anilin, rein                           | 100             | -     |      |      | ○     |      |      | ○    |      |       |
| Anilinchlorhydrat, w.                  | ges.            | +     | ○    |      | +     | +    | ○    | +    | ○    |       |
| Anon                                   | 100             | -     | -    | -    | +     | ○    | ○    | +    | ○    |       |
| Anthrachinonsulfonsäure, w. Susp.      |                 | +     |      | ○    |       |      |      |      |      |       |
| Antiformin, w.                         | 2               | +     |      |      |       |      |      |      |      |       |
| Antimontrichlorid, w.                  | 90              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Apfelsäure, w.                         | 1               | +     | +    |      |       |      |      |      |      |       |
| Arsensäure, w.                         | 80              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Asphalt <sup>1</sup>                   |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Bariumsalze, w                         | jd              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Benzaldehyd, w.                        | 0,1             | ○     | ○    | ○    |       |      |      |      |      |       |
|  | ges.            | -     |      |      | +     |      |      | +    |      |       |
| Benzin, s. Treibstoffe                 |                 |       |      |      |       |      |      |      |      |       |
| Benzol                                 | 100             | -     | -    | -    | ○     | ○    | -    | ○    | -    |       |
| Benzin-Benzol-Gemisch                  | 80/20           | -     | -    | -    |       |      |      |      |      |       |



## Chemische Widerstandsfähigkeit

| Angreifendes Medium                    | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|--|-----------------|-------|------|------|-------|------|------|------|------|-------|
|  |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Benzoessäure, w.                       | jd              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Benzoesaures Natrium, w.               | 10              | +     | +    |      |       |      |      |      |      |       |
|  | 35              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Bernsteinsäure, w.                     | jd              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Bier                                   |                 | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Biercouleur                            | gebr.           | +     | +    | +    |       |      |      |      |      |       |
| Bisulfit (siehe Natriumbisulfit)       |                 |       |      |      |       |      |      |      |      |       |
| Bisulfitlauge, w.                      | ges.            | +     |      |      |       |      |      |      |      |       |
| Bleiacetat, w.                         | w.ges.          | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Bleichlauge<br>(12,5% wirksames Chlor) |                 | +     | +    | ○    | ○     |      |      | ○    | -    |       |
| Bleitetraethyl                         | 100             | +     |      |      | +     |      |      | +    |      |       |
| Bohnerwachs <sup>1</sup>               |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Borax, w.                              | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Borsäure                               | 100             |       |      |      | +     | +    | +    | +    | +    |       |
| Borsäure, w.                           | jd              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Branntweine aller Art, übl.            |                 | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Bremsflüssigkeit                       |                 |       |      |      | +     | +    | +    | +    | +    | +     |
| Brom, flüssig                          | 100             | -     |      |      | -     |      |      | -    |      |       |
| Bromdämpfe                             | ger.            | ○     |      |      | ○     |      | -    | ○    | -    |       |
|  | hoch            | -     |      |      | -     |      |      | -    | -    |       |
| Bromsäure                              | verd.           | +     |      |      |       |      |      |      |      |       |
| Bromwasser, w.                         | ges.            | +     | ○    |      | -     |      |      | -    | -    |       |
| Bromwasserstoffsäure, w.               | 50              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Butadien                               | 100             | +     | +    | +    | +     |      |      | +    | +    |       |
| Butan, gasförmig                       |                 | +     |      |      | +     |      |      | +    |      |       |
| Butandiol, w.                          | 10              | +     | ○    | -    | +     | +    | +    | +    | +    |       |
| Butanol                                | 100             | +     | +    | ○    | +     | +    | +    | +    | ○    | -     |
| Butindiol                              | 100             |       | ○    |      |       |      |      |      |      |       |
| Buttersäure                            | konz.           | -     | -    | -    | +     | +    | ○    | +    |      |       |
| Buttersäure, w.                        | 20              | +     |      | ○    |       |      |      |      |      |       |
| Butylacetat                            | 100             | -     | -    | -    | +     |      |      | ○    |      |       |
| n-Butylalkohol (n-Butanol)             | 100             | +     | +    | ○    | +     | +    | +    | +    | -    |       |
| Butylphenol                            | 100             | ○     | -    |      | ○     |      |      | +    |      |       |
| Calciumchlorid, w.                     | ges., jd        | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Calciumnitrat, w.                      | 50              | +     | +    |      | +     | +    | +    |      |      |       |
| Chlor, flüssig                         | 100             | -     |      |      | -     |      |      | -    |      |       |
| Chlor, gasförmig, feucht               | 0,5             | +     |      |      |       |      |      |      |      |       |
|  | 1,0             | ○     |      |      |       |      |      |      |      |       |
|  | 5,0             | ○     |      |      |       |      |      |      |      |       |
|  | 97,0            | ○     |      |      | -     |      |      | -    |      |       |
| Chlor, gasförmig, trocken              | 100             | ○     | ○    |      | ○     | ○    | -    | -    | -    | -     |
| Chloramin, w.                          | verd.           | +     |      |      |       |      |      |      |      |       |
| Chlorbenzol                            | 100             | -     |      |      | ○     |      | -    | +    |      |       |
| Chloressigsäure (mono), w.             | 50              | +     | +    |      | +     | +    | +    | +    | +    |       |
| Chlorkalk<br>(wäßrige Aufschwemmung)   |                 | +     | +    |      | +     | +    | +    | +    | +    |       |
| Chlormethyl                            | 100             | -     |      |      |       |      |      |      |      |       |
| Chloroform                             | 100             | -     |      |      | -     |      |      | ○    | -    |       |
| Chlorsäure, w.                         | 1               | +     | +    | ○    |       |      |      |      |      |       |
|  | 10              | +     | +    | ○    | +     | +    |      | -    |      |       |
|  | 20              | +     | +    | ○    |       |      |      |      |      |       |
| Chlorsulfonsäure                       | 100             | ○     |      |      | -     |      |      | -    | -    |       |
| Chlorwasser                            | ges.            | ○     | ○    |      | ○     | ○    | -    | ○    | -    |       |
| Chlorwasserstoff, feucht               |                 | +     | +    |      |       |      |      |      |      |       |



Chemische Widerstandsfähigkeit

| Angreifendes Medium                               | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|---|-----------------|-------|------|------|-------|------|------|------|------|-------|
|   |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Chlorwasserstoff, gasförmig (vgl. auch Salzsäure) | hoch            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Chlorwasserstoff, trocken                         |                 | +     | +    | +    |       |      |      |      |      |       |
| Chromalaun, w.                                    | verd.           | +     | +    | ○    |       |      |      |      |      |       |
|   | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Chrombäder, techn. <sup>1</sup>                   |                 |       |      |      | +     | +    | +    | +    | +    |       |
| Chromsäure, w.                                    | 50              | +     | +    | ○    | ○     | -    |      | ○    |      |       |
| Chromsäure/Schwefelsäure/Wasser                   | 50/15/35        | +     | +    | ○    | -     |      |      | -    |      |       |
| Chromsalze (zwei- und dreiwertig), w.             | ges.            |       |      |      | +     | +    | +    | +    | +    |       |
| Chromschwefelsäure                                |                 |       |      |      | -     |      |      | -    | -    |       |
| Clophene  | gebr.           | ○     |      | -    |       |      |      |      |      |       |
| Crotonaldehyd                                     | 100             | -     |      |      | +     |      |      | +    |      |       |
| Cyankali, w.                                      | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Cyclanone   | gebr.           | +     | +    | +    |       |      |      |      |      |       |
| Cyclohexan  | 100             | -     |      |      | +     | +    | +    | +    |      |       |
| Cyclohexanol                                      | 100             | -     | -    | -    | +     | +    | +    | +    | ○    |       |
| Cyclohexanon                                      | 100             | -     | -    | -    | +     | ○    | ○    | +    | ○    |       |
| Dekahydronaphthalin                               | 100             |       |      |      | ○     |      | -    |      | -    | -     |
| Densodrin W                                       | gebr.           | +     | +    | +    |       |      |      |      |      |       |
| Dextrin, w.                                       | ges.            | +     |      |      |       |      |      |      |      |       |
|   | 18              |       |      | ○    |       |      |      |      |      |       |
| Dibutylphthalat s. Weichmacher                    |                 |       |      |      |       |      |      |      |      |       |
| Diethylether <sup>1</sup>                         | 100             | -     | -    | -    |       |      |      | ○    |      |       |
| Dieselöl s. Treibstoffe                           |                 |       |      |      |       |      |      |      |      |       |
| Diglycolsäure, w.                                 | 30              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Dimethylformamid                                  | 100             | -     |      |      | +     | +    | ○    | +    | +    |       |
| 1,4-Dioxan  | 100             | -     |      |      | +     | +    | +    | ○    | ○    | -     |
| Dixanlaug <sup>®</sup>                            | gebr.           | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Düngesalze, w.                                    |                 | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Eisensalze, w.                                    | jd              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Essig (Weinessig), w.                             | gebr.           | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Essigester  | 100             | -     |      |      | +     | ○    | ○    | +    | ○    |       |
| Essigsäure (Eisessig)                             | 100             | ○     | -    |      | +     | +    | ○    | +    | ○    | -     |
| Essigsäure, w.                                    | 10              | +     | +    | ○    | +     | +    | ○    | +    | ○    |       |
|   | 50              | +     | +    |      | +     | +    | +    | +    | +    |       |
|   | 80              |       | ○    |      |       |      |      |      |      |       |
| Essigsäureanhydrid                                | 100             | -     |      |      | +     |      |      | +    |      |       |
| Essigsäurebutylester (Butylacetat)                | 100             | -     | -    | -    | +     | ○    |      | ○    |      |       |
| Essigsäureethylester (Ethylacetat, Essigester)    | 100             | -     |      |      | +     | ○    | ○    | +    | ○    |       |
| Ether s. Diethylether                             |                 |       |      |      |       |      |      |      |      |       |
| Ethyläther  | 100             | -     |      |      | ○     |      |      | +    |      |       |
| Ethylacetat s. Essigsäureethylester               |                 |       |      |      |       |      |      |      |      |       |
| Ethylalkohol                                      | 96              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Ethylalkohol, vergällt (mit 2% Toluol)            | 96              | +     | ○    | ○    |       |      |      |      |      |       |
| Ethylalkohol (Gärungsmaische)                     | gebr.           | +     | +    | ○    | +     | +    | +    | +    |      |       |
| Ethylbenzol                                       | 100             | -     |      |      | ○     |      | -    | ○    | -    |       |
| Ethylchlorid <sup>2</sup>                         | 100             | -     |      |      | ○     |      |      | ○    |      |       |
| Ethylenchlorid                                    | 100             | -     |      |      | ○     |      |      | ○    |      |       |
| Ethylenoxid, flüssig                              | 100             | -     |      |      | -     |      |      | ○    |      |       |
| 2-Ethylhexanol                                    | 100             |       |      |      | +     |      |      | +    |      |       |



## Chemische Widerstandsfähigkeit

| Angreifendes Medium                          | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|--|-----------------|-------|------|------|-------|------|------|------|------|-------|
|  |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Fettsäuren > C6                              | 100             | +     | +    | +    | +     | +    | ○    | +    | +    |       |
| Fichtennadelöl                               |                 |       |      |      | +     |      |      | +    |      |       |
| Fixiersalz (vgl. auch Natriumthiosulfat), w. | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Fluor  | 100             | -     |      |      | -     |      |      | -    |      |       |
| Flußsäure, w.                                | bis 40          | +     | ○    | ○    | +     | +    | ○    | +    | +    |       |
|  | 40              | +     |      |      | +     | +    | ○    | +    | +    |       |
|  | 60              | +     |      |      |       |      |      |      |      |       |
|  | 70              | +     |      |      | +     |      | ○    | +    |      |       |
| Formalin®                                    |                 |       |      |      | +     | +    | +    | +    | +    |       |
| Formaldehyd, w.                              | verd.           | +     | +    | ○    |       |      |      |      |      |       |
|  | 40              | +     | +    | ○    | +     | +    | +    | +    |      |       |
| Foto-Emulsionen                              | jd              | +     | +    |      | +     | +    |      | +    | +    |       |
| Foto-Entwickler                              | gebr.           | +     | +    | ○    | +     | +    | ○    | +    |      |       |
| Foto-Fixierbäder                             | gebr.           | +     | +    | ○    | +     | +    |      | +    |      |       |
| FRIGEN®                                      | 100             | +     |      |      | -     |      |      | -    |      |       |
| Frostschutzmittel (Kfz) <sup>1</sup>         |                 |       |      |      | +     | +    | +    | +    | +    |       |
| Fruchtgetränke                               | gebr.           | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Fruchtsäfte                                  | gebr.           | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Gerbeextrakte, aus Cellulose                 | übl.            | +     |      |      |       |      |      |      |      |       |
| Gerbeextrakte, pflanzlich                    | übl.            | +     |      |      | +     |      |      | +    |      |       |
| Geschirrspülmittel, flüssig <sup>1</sup>     |                 |       |      |      | +     | +    | +    | +    | +    | +     |
| Glucose, w.                                  |                 | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Glycerin                                     | 100             | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Glycerin, w.                                 | jd              | +     | +    |      | +     | +    | +    | +    | +    | +     |
| Glykokoll, w.                                | 10              | +     | +    |      | +     | +    |      | +    |      |       |
| Glykol                                       | 100             | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Glykolsäure, w.                              | 37              | +     |      |      | +     | +    | +    | +    |      |       |
| Harnstoff, w.                                | bis 10          | +     | +    | ○    |       |      |      |      |      |       |
|  | 33              | +     | +    | +    | +     | +    | +    | +    | +    |       |
|  | ges.            |       |      |      | +     | +    | +    | +    | +    |       |
| Heizöle                                      |                 | +     | +    |      | +     |      | ○    | +    | ○    |       |
| Heptan                                       | 100             | +     |      |      | +     |      | ○    | +    | ○    |       |
| Hexan  | 100             | +     |      |      | +     |      | ○    | +    | ○    |       |
| Hexantriol                                   | gebr.           | +     | +    | +    |       |      |      |      |      |       |
| Holländerleim                                | gebr.           | +     | +    | +    |       |      |      |      |      |       |
| Hydroxylaminsulfat, w.                       | jd              | +     | +    |      | +     | +    | +    | +    | +    |       |
| Hydrosulfit, w.<br>(Natriumdithionit)        | bis 10          | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Isooktan                                     | 100             | +     |      |      | +     |      | ○    | +    | ○    |       |
| Isopropylalkohol                             | 100             |       |      |      | +     | +    | +    | +    | +    |       |
| Jod, fest und in<br>alkalischer Lösung       |                 | -     |      |      | +     |      |      | +    |      |       |
| Kalilauge                                    | 50              |       |      |      | +     | +    | +    | +    | +    |       |
|  | 25              |       |      |      | +     | +    | +    | +    | +    |       |
|  | 10              |       |      |      | +     | +    | +    | +    | +    |       |
| Kalilauge, w.                                | bis 40          | +     | +    | ○    |       |      |      |      |      |       |
|  | 50-60           | +     | +    | +    |       |      |      |      |      |       |
| Kaliumbichromat, w.                          | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Kaliumborat, w.                              | 10              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Kaliumbromat, w.                             | ges.            | +     | +    | ○    | +     | +    | ○    | +    | +    | +     |
| Kaliumbromid, w.                             | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Kaliumcarbonat, w.<br>(Pottasche)            | ges.            | +     | +    |      | +     | +    |      | +    | +    |       |
| Kaliumchlorat, w.                            | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |



## Chemische Widerstandsfähigkeit

| Angreifendes Medium             | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|---------------------------------|-----------------|-------|------|------|-------|------|------|------|------|-------|
|                                 |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Kaliumchlorid, w.               | jd              | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Kaliumchromat, w.               | ges.            | +     | +    | +    | +     |      |      | +    | +    |       |
| Kaliumdichromat, w.             | ges.            |       |      |      | +     | +    | +    | +    | +    | +     |
| Kaliumjodid, w.                 | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Kaliumnitrat, w.                | 50              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Kaliumperchlorat, w.            | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Kaliumpermanganat, w.           | ges.            | +     | +    | +    | +     | +    | ○    | +    | +    |       |
| Kaliumpersulfat, w.             | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Kaliumsulfat, w.                | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Kiefernadelöl                   |                 |       |      |      | +     |      |      | +    |      |       |
| Kieselfluorwasserstoffsäure, w. | bis 32          | +     | +    | +    | +     | +    | +    | +    |      |       |
| Kieselsäure, w.                 | jd              | +     | +    | +    |       |      |      |      |      |       |
| Knochenöl                       |                 |       |      |      | +     |      |      | +    |      |       |
| Kochsalz, w.                    | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
|                                 | ges.            | +     | +    | +    |       |      |      |      |      |       |
| Königswasser                    |                 | ○     |      |      | -     |      |      | -    |      |       |
| Kohlenoxid                      | 100             | +     | +    | +    |       |      |      |      |      |       |
| Kohlensäure, trocken            | 100             | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Kohlensäure, feucht             | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Kokosfettalkohol                | 100             | +     | +    | +    | +     | ○    |      | +    | ○    |       |
| Kresole                         | 100             |       |      |      | +     |      | ○    | +    | ○    |       |
| Kresole, w.                     | 90              | ○     |      |      |       |      |      |      |      |       |
|                                 | ges.            | ○     |      |      | +     |      |      | +    |      |       |
| Kupfer(I)-chlorid, w.           | ges.            | +     | +    |      | +     | +    | +    | +    | -    |       |
| Kupfersalze, w.                 | jd              | +     | +    | ○    | +     | +    | +    | +    | ○    | -     |
| Kupfersulfat, w.                | verd.           | +     | +    | ○    |       |      |      |      |      |       |
|                                 | ges.            | +     | +    | +    |       |      |      |      |      |       |
| Lanolin®                        |                 | +     | ○    |      | +     | +    | +    | +    | +    |       |
| Leimbrühen (Gelatine)           | jd              | +     | +    |      | +     | +    | +    | +    | +    |       |
| Leinöl                          | 100             | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Leinöl                          |                 | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Leuchtgas, benzolfrei           |                 | +     |      |      | +     |      |      | +    |      |       |
| Liköre                          |                 | +     | +    |      | +     | +    |      | +    |      |       |
| LITEX®                          |                 |       |      |      |       |      |      | +    | +    |       |
| Lysol®                          |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Magnesiumchlorid, w.            | verd.           | +     | +    | ○    |       |      |      |      |      |       |
|                                 | ges.            | +     | +    | +    |       |      |      |      |      |       |
| Magnesiumsalze, w.              | jd              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Magnesiumsulfat, w.             | verd.           | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|                                 | ges.            | +     | +    | +    |       |      |      |      |      |       |
| Maleinsäure, w.                 | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Melasse                         | gebr.           | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Melassewürze                    | gebr.           | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Mersol D                        | gebr.           | +     | +    | ○    |       |      |      |      |      |       |
| Methylalkohol (Methanol)        | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Methylamin, w.                  | 32              | ○     |      |      | +     |      |      | +    |      |       |
| Methylenchlorid                 | 100             | -     |      |      | ○     |      |      | ○    |      |       |
| Methylethylketon                | 100             | -     |      |      | +     | ○    |      | +    | ○    |       |
| Methylschwefelsäure, w.         | bis 50          | +     | ○    |      |       |      |      |      |      |       |
|                                 | 100             | +     | +    | ○    |       |      |      |      |      |       |
| Milch                           |                 | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Milchsäure, w.                  | bis 10          | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|                                 | 90              | +     | ○    | -    | +     | +    | +    | +    | +    | +     |
|                                 | 50              |       |      |      | +     | +    | +    | +    | +    |       |
|                                 | 10              |       |      |      | +     | +    | +    | +    | +    | +     |



## Chemische Widerstandsfähigkeit

| Angreifendes Medium                                     | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|---|-----------------|-------|------|------|-------|------|------|------|------|-------|
|   |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Mineralöle (aromatenfr.) <sup>1</sup>                   |                 | +     | +    | +    | +     | +    | ○    | +    | ○    |       |
| Mischsäure (Schwefelsäure/<br>Salpetersäure/Wasser)     | 48/49/3         | +     | ○    |      | -     |      |      | -    |      |       |
|   | 50/50/0         | ○     | -    |      | -     |      |      | -    |      |       |
|   | 10/20/70        | +     | +    |      | ○     |      |      | -    |      |       |
|   | 10/87/3         | ○     |      |      | -     |      |      | -    |      |       |
|   | 50/31/19        | +     |      |      | -     |      |      | -    |      |       |
| Möbelpolitur <sup>1</sup>                               |                 |       |      |      | +     |      | ○    | +    | ○    | -     |
| Motorenöle (Kfz) <sup>1</sup>                           |                 |       |      |      |       |      | ○    | +    | ○    | -     |
| (vgl. auch Zweitaktöle und Öl<br>nach ASTM)             |                 |       |      |      |       |      |      |      |      |       |
| Mottenkugeln <sup>1</sup>                               |                 |       |      |      | +     |      |      | +    |      |       |
| Mowolith D  | gebr.           | +     |      |      | +     |      |      | +    |      |       |
| Naphthalin  | 100             | -     |      |      | +     |      | ○    | +    |      |       |
| Natriumbicarbonat, w. (Natron)                          | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Natriumbisulfit, w.                                     | jd              | +     | ○    | -    | +     | +    | +    | +    | +    |       |
| Natriumcarbonat, w. (Soda)                              | ges.            | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Natriumchlorat, w.                                      | bis 10          | +     | +    | ○    |       |      |      |      |      |       |
|   | 25              |       |      |      | +     | +    | +    | +    | +    |       |
|   | ges.            | +     | +    | +    |       |      |      |      |      |       |
| Natriumchlorid, w. (Kochsalz)                           | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Natriumchlorit, w.                                      | verd.           | ○     |      |      | +     |      |      | +    | ○    |       |
|   | 5               |       |      |      | +     | +    | +    | +    |      |       |
| Natriumdithionit (s. Hydrosulfit)                       |                 |       |      |      |       |      |      |      |      |       |
| Natriumhydroxid (Ätznatron)                             | 100             |       |      |      | +     | +    | +    | +    | +    |       |
| Natriumhypochlorit, w. 12,5% Chlor, w.<br>(Bleichlauge) | verd.           | +     | +    | ○    | ○     | -    |      | ○    |      |       |
| Natriumnitrat, w.                                       | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Natriumnitrit, w.                                       | ges.            | +     |      |      | +     |      |      | +    |      |       |
| Natriumperborat, w.                                     | ges.            |       |      |      | +     | +    | +    | +    | +    | +     |
| Natriumphosphate, w.                                    | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Natriumsulfat, w. (Glaubersalz)                         | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Natriumsulfid, w.                                       | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Natriumsulfit, w.                                       | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Natriumthiosulfat, w. (Fixiersalz)                      | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Natronlauge, w.   | bis 10          | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|   | bis 40          | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|   | 50              | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| NEKAL BX <sup>®</sup> , w.                              | verd.           | +     | +    | ○    |       |      |      |      |      |       |
| Nickelsalze, w.   | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Nikotin, w.   | gebr.           | +     |      |      |       |      |      |      |      |       |
| Nikotin-Präparate, w.                                   | gebr.           | +     |      |      |       |      |      |      |      |       |
| Nitrobenzol   | 100             | -     |      |      | +     | +    | ○    | +    | +    |       |
| Nitroglycerin   | verd.           | ○     |      |      |       |      |      |      |      |       |
| Nitroglycol   | verd.           | -     |      |      |       |      |      |      |      |       |
| Nitrose-Gase, verd. feucht u. trocken                   |                 | +     |      | ○    | +     | +    | +    | +    | -    |       |
| Obstbaum-Karbolineum, w.                                | gebr.           | +     |      |      |       |      |      |      |      |       |
| Obstpulp  | gebr.           | +     |      |      | +     | +    | +    | +    | +    |       |
| Öle und Fette, tierisch u. pflanzlich                   |                 | +     | +    | +    |       |      |      |      |      |       |
| Ölsäure   | gebr.           | +     | +    | +    |       |      |      |      |      |       |
|   | 100             | +     | +    | +    | +     | +    | ○    | +    | ○    |       |
| Oktan s. Isooktan                                       |                 |       |      |      |       |      |      |      |      |       |
| Oleum, 10% SO <sub>3</sub>                              |                 | -     |      |      | -     |      |      | -    |      |       |
| Oleumdämpfe   | ger.            | +     |      |      | -     |      |      | -    |      |       |
|   | höhere          | ○     |      |      |       |      |      |      |      |       |
| Oxalsäure, w.   | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |



Chemische Widerstandsfähigkeit

| Angreifendes Medium                                | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|--|-----------------|-------|------|------|-------|------|------|------|------|-------|
|  |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Ozon   | bis 2% in Luft  | +     |      |      | ○     | -    |      | ○    | -    |       |
| Palmkernfettsäure                                  | 100             | +     | +    | +    |       |      |      |      |      |       |
| Paraffin   | 100             |       |      |      | +     | +    | +    | +    | +    | -     |
| Paraffinöl   | 100             | +     | +    | ○    | +     | +    | +    | +    | ○    |       |
| Paraffinemulsionen                                 | gebr.           | +     | +    |      | +     | +    | ○    | +    | ○    |       |
| Pektin   | ges.            |       |      |      | +     | +    | +    | +    | +    |       |
| Petrolether  | 100             | +     | +    | +    | +     | ○    | ○    | +    | ○    |       |
| Petroleum  |                 | +     |      |      | +     | +    | ○    | +    | ○    | ○     |
| Perchloräthylen s. Tetrachlorethylen               |                 |       |      |      |       |      |      |      |      |       |
| Pflanzenschutzmittel<br>siehe Obstbaumkarbolineum, |                 |       |      |      |       |      |      |      |      |       |
| Phenol   | ges.            |       |      |      | +     | +    | ○    | +    | +    |       |
| (wäßrige Phase)                                    | (ca. 9)         | +     | ○    |      | +     | +    | ○    | +    | +    |       |
| (phenolige Phase)                                  | ges. (ca. 70)   | ○     |      |      | +     | +    | ○    | +    | +    |       |
| Phenol, w.   | bis 90          | ○     |      | +    | +     | ○    | +    | +    |      |       |
| Phenylhydrazin                                     | 100             | -     |      |      | ○     |      |      | ○    |      |       |
| Phenylhydrazin-Chlorhydrat, w.                     |                 | ○     |      | -    |       |      |      | +    | ○    |       |
| Photographische Entwickler <sup>1</sup>            | übl.            | +     | +    | ○    | +     | +    | ○    | +    | +    |       |
| Phosgen, flüssig                                   | 100             | -     |      |      |       |      |      | ○    |      |       |
| Phosgen, gasförmig                                 | 100             | +     | ○    | ○    | ○     |      |      | ○    |      |       |
| Phosphorpentoxid                                   | 100             | +     | +    |      | +     | +    |      | +    |      |       |
| Phosphorsäure                                      | ges.            |       |      |      | +     |      | ○    | +    | ○    |       |
|  | (85), w.        | +     | +    | +    | +     | +    | ○    | +    | +    | +     |
|  | 50, w.          | +     | +    | +    | +     | +    | +    | +    | +    |       |
|  | 10              |       |      |      | +     | +    | +    | +    | +    | +     |
|  | bis 30, w.      | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Phosphortrichlorid                                 | 100             | -     | -    | -    |       |      |      |      |      |       |
| Phosphorwasserstoff                                | 100             | +     |      |      |       |      |      |      |      |       |
| Pikrinsäure, w.                                    | 1               | +     |      |      | +     |      |      | +    |      |       |
| Pottasche, w.                                      | ges.            | +     | +    |      | +     | +    |      | +    | +    |       |
| Propan, flüssig                                    | 100             | +     |      |      | +     |      |      | +    |      |       |
| Propan, gasförmig                                  | 100             |       |      |      | +     | +    | +    | +    | +    |       |
| Propargylalkohol, w.                               | 7               | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Pyridin  | 100             | -     |      |      | +     | ○    | ○    | ○    | ○    |       |
| Quecksilber  | 100             | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Quecksilbersalze, w.                               | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Rindertalg-Emulsion, sulfuriert                    | gebr.           | +     |      |      | +     |      |      | +    |      |       |
| Röstgase, trocken                                  | jd              | +     | +    | +    |       |      |      |      |      |       |
| Sagrotan®  |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Salpetersäure, w.                                  | 6,3             | +     | +    | +    | +     | +    | +    | +    | ○    |       |
|  | bis 40          | +     | +    | ○    | ○     |      |      | ○    |      |       |
|  | 65              | ○     | ○    | -    | ○     | -    | ○    | -    |      |       |
|  | 85              |       |      |      |       |      |      |      |      |       |
|  | 100             | -     |      |      | -     |      |      | -    |      |       |
| Salzsäure, w.                                      | 5               | +     | +    | ○    | +     | +    | +    | +    | +    |       |
|  | 10              | +     | +    | ○    | +     | +    | +    | +    | ○    |       |
|  | bis 30          | +     | +    | ○    | +     | +    | +    | +    | ○    |       |
| Sauerstoff   | jd              | +     | +    | +    | +     | +    | ○    | +    | ○    |       |
| Schmierseife                                       |                 |       |      |      | +     | +    | +    | +    | +    |       |
| Schreibmaschinenöl                                 |                 |       |      |      | +     |      |      | +    |      |       |
| Schuhcreme <sup>1</sup>                            |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Schwefel   | 100             | ○     | -    |      | +     | +    | +    | +    | +    |       |
| Schwefeldioxid, feucht                             | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Schwefeldioxid, trocken                            | 100             | +     | +    | +    | +     | +    | +    | +    | +    |       |



## Chemische Widerstandsfähigkeit

| Angreifendes Medium                  | Konzentration % | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|--------------------------------------|-----------------|-------|------|------|-------|------|------|------|------|-------|
|                                      |                 | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Schwefeldioxid, flüssig              | 100             | -     |      |      | -     |      |      | -    |      |       |
| Schwefelkohlenstoff                  | 100             | -     |      |      | ○     |      |      | ○    |      |       |
| Schwefelsäure                        | 98              | +     |      |      | +     |      | ○    | +    | ○    |       |
|                                      | 50              |       |      |      | +     | +    | +    | +    | +    |       |
|                                      | 25              |       |      |      | +     | +    | +    | +    | +    |       |
|                                      | 10              |       |      |      | +     | +    | +    | +    | +    | +     |
| Schwefelsäure, w.                    | bis 40          | +     | +    | ○    | +     | +    | +    | +    | +    |       |
|                                      | üb. 40-80       | +     | +    | +    | +     | +    | ○    | +    | ○    |       |
|                                      | üb. 80-90       | +     | +    |      | ○     |      |      | ○    |      |       |
|                                      | 96              | +     | +    | ○    | -     |      |      | -    |      |       |
| Schwefeltrioxid                      |                 | -     |      |      | -     |      |      | -    |      |       |
| Schwefelwasserstoff, trocken         | 100             | +     | +    | +    | +     | +    | ○    | +    | +    |       |
| Schwefelwasserstoff, w.              | w.ges.          | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Schweflige Säure, w.                 | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Seewasser                            |                 | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Seifenlösung, w.                     | jd              | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Silbersalze, w.                      | ges.            | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Silikonöle <sup>1</sup>              |                 | +     | ○    | -    | +     | +    | +    | +    | +    | +     |
| Soda s. Natriumkarbonat              |                 |       |      |      |       |      |      |      |      |       |
| Soda-Lösung                          | verd.           | +     | +    | ○    |       |      |      |      |      |       |
|                                      | ges.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Spermölalkohol                       | gebr.           | +     |      |      |       |      |      |      |      |       |
| Spinnbadsäuren, CS2-haltig           | 100 mg/l        | +     | +    |      | +     |      |      | +    |      |       |
|                                      | 200 mg/l        | ○     |      |      | +     |      |      | +    |      |       |
|                                      | 700 mg/l        | -     |      |      | +     |      |      | +    |      |       |
| Spirituosen                          |                 | +     |      |      | +     |      |      | +    |      |       |
| Stärke, w.                           | gebr.           | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Stearinsäure                         | 100             | +     | +    | +    | +     |      | ○    | +    | ○    |       |
| Stellhefenwürze                      | gebr.           | +     | +    |      |       |      |      |      |      |       |
| Stickoxide, feucht und trocken       | verd.           | +     |      | ○    | +     | +    | +    | +    | -    |       |
| Stickoxide, feucht                   | konz.           | -     |      |      |       |      |      |      |      |       |
| Talg                                 | 100             | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Teer <sup>1</sup>                    |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Terpentinöl                          |                 | +     | +    |      | ○     |      | -    | ○    | -    |       |
| Testbenzin                           |                 | +     | +    |      | +     |      | ○    | +    | ○    |       |
| Tetrachlorethan                      | 100             | -     |      |      | ○     |      |      | ○    | -    |       |
| Tetrachlorethylen                    | 100             | -     |      |      | -     |      |      | -    |      |       |
| (Perchlorethylen)                    |                 |       |      |      |       |      |      |      |      |       |
| Tetrachlorkohlenstoff                | 100             | -     |      |      | -     |      |      | -    |      |       |
| Tetrahydrofuran                      | 100             | -     |      |      | ○     |      |      | -    |      |       |
| Tetrahydronaphthalin                 | 100             | -     |      |      | ○     |      | -    | -    |      |       |
| Tinte <sup>1</sup>                   |                 |       |      |      | +     | +    | +    | +    | +    |       |
| Transformatorenöl <sup>1</sup>       |                 |       |      |      | +     |      | ○    | +    | ○    |       |
| Treibstoffe                          |                 |       |      |      |       |      |      |      |      |       |
| Benzin, übl. (blei- u. aromatenfrei) | jd              | +     | +    | +    | +     | +    | ○    | ○    | -    |       |
| Benzin, super                        |                 |       |      |      | ○     |      | -    | ○    | -    |       |
| Dieselöl <sup>1</sup>                |                 | +     | +    |      | +     |      | ○    | ○    |      |       |
| Thionylchlorid                       | konz.           | -     |      |      | -     |      |      | -    |      |       |
| Thiophen                             | 100             |       |      |      | ○     |      | ○    | ○    | -    |       |
| Toluol                               | 100             | -     |      |      | ○     |      | -    | ○    |      |       |
| Traubenzucker, w.                    | jd              | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
| Trichlorethylen                      | 100             | -     |      |      | -     |      | -    | ○    |      |       |
| Triethanolamin                       | 100             | -     |      |      | +     | +    | +    | +    |      |       |
| Trilone                              | übl.            |       |      | ○    |       |      |      |      |      |       |
| Trimethylolpropan, w.                | bis 10          | +     | +    | ○    |       |      |      |      |      |       |
|                                      | übl.            |       | ○    |      |       |      |      |      |      |       |



## Chemische Widerstandsfähigkeit

| Angreifendes Medium   | Konzentration %  | PVC-U |      |      | PE-HD |      |      | PP   |      |       |
|---|------------------|-------|------|------|-------|------|------|------|------|-------|
|   |                  | 20°C  | 40°C | 60°C | 20°C  | 40°C | 60°C | 20°C | 60°C | 100°C |
| Überchlorsäure, w.  | 10               | +     | +    | ○    | +     | +    | +    | +    | +    |       |
|   | 70               | ○     |      |      | +     | ○    | -    | ○    |      |       |
| Urin  |                  | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Vinylacetat   | 100              | -     |      |      |       |      |      | +    | ○    |       |
| Viscose-Spinnlösungen   |                  | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Wachsalkohol  | 100              | +     | +    | +    | ○     | -    |      | +    | +    |       |
| Waschmittel   | hoch<br>gebr.    |       |      |      | +     | +    | +    | +    | +    |       |
| Waschmittel, synthet. <sup>2</sup>  | gebr.            |       |      |      | +     | +    | +    | +    | +    | +     |
| Wasser, entionisiert, vollentsalzt  | 100              | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Wasser: Abwässer jeder Art<br>(auch stark saure, jedoch ohne<br>organische Lösungsmittel) |                  | +     | +    |      | +     | +    | +    | +    | +    |       |
| Abwässer mit Spuren Phenol<br>oder Butanol  |                  | +     | -    |      |       |      |      |      |      |       |
| Destilliertes Wasser  |                  | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Gaswasser   |                  | +     | ○    |      |       |      |      |      |      |       |
| Trinkwasser   |                  | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Quellwasser   |                  | +     | +    |      |       |      |      |      |      |       |
| Kondensatwasser   |                  | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Wasserstoff   | 100              | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Wasserstoffperoxid, w.  | 90               | +     |      |      | +     |      | -    | -    |      |       |
|   | 30               | +     | +    |      | +     | +    | +    | +    | ○    |       |
|   | 10               | +     | +    | ○    | +     | +    | +    | +    | +    |       |
|   | 3                |       |      |      | +     | +    | +    | +    | +    | +     |
| Wasserstoffsperoxyd, w.   | bis 30<br>bis 20 | +     |      |      |       |      |      |      |      |       |
| Wasserglas  |                  |       |      |      | +     | +    | +    | +    | +    |       |
| Wasserstoffsperoxyd<br>s. Chemikalien   |                  |       |      |      |       |      |      |      |      |       |
| Weichmacher:  |                  |       |      |      |       |      |      |      |      |       |
| Dibutylphthalat   |                  | -     |      |      | +     | ○    | ○    | +    | ○    |       |
| Dibutylsebazat  |                  | -     |      |      | +     | +    | ○    | +    |      |       |
| Dihexylphthalat   |                  |       |      |      | +     | +    | +    | +    |      |       |
| Dinonyladipat   |                  |       |      |      | +     |      |      | +    |      |       |
| Dynonylphthalat   |                  | -     |      |      | ○     |      |      | +    |      |       |
| Dioktyladipat   |                  |       |      |      | ○     |      |      | +    |      |       |
| Dioktylphthalat   |                  | -     |      |      | ○     |      |      | +    |      |       |
| Trikresylphosphat   |                  | -     |      |      | +     | +    | +    | +    | ○    |       |
| Trioktylphosphat  |                  |       |      |      | +     |      | ○    | +    |      |       |
| Weinbrand   |                  | +     | +    |      | +     |      |      |      |      |       |
| Weine, rot und weiß   |                  | +     |      |      | +     | +    | +    | +    | +    |       |
| Weinessig   | gebr.            | +     | +    | +    | +     | +    | +    | +    | +    |       |
| Weinsäure, w.   | jd               | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Xylol   | 100              | -     |      |      | -     |      |      | -    |      |       |
| Zinksalze, w.   | jd               | +     | +    | ○    | +     | +    | +    | +    | +    |       |
| Zinn-II-chlorid, w.   | ges.             | +     | ○    | ○    | +     | +    | +    | +    | +    |       |
| Zitronensäure, w.   | 10               | +     | +    | ○    | +     | +    | +    | +    | +    | +     |
|   | ges.             | +     | +    | +    | +     | +    | +    | +    | +    | +     |
| Zweitaktöl  |                  |       |      |      | +     |      | ○    | ○    | ○    |       |

<sup>1</sup> Widerstandsfähigkeit hängt von der Zusammensetzung ab.

<sup>2</sup> frei von Lösungsmitteln, Weichmachern und anderen Zuschlägen



# Lieferprogramm

## Wasserversorgung

Omniplast Druckrohr-Programm PVC-U  
mit Steckmuffe standard, System 3 s

Omniplast Druckrohr-Programm PE 80/100

## Entwässerung

Omniplast Kanalrohr-Programm PVC-U

Omniplast Kanalrohr-Programm PVC-U = System Bipeau =

Omniplast Kanalrohr-Programm PVC-U = System Bipeau plus =

Omniplast Kanalrohr-Programm PE-HD

Omniplast rotstrichrohr-Programm PP  
schwerentflammbar, heißwasserbeständig

Omniplast Abwasserdruckrohr-Programm PE 80/100

Omniplast Kanal-Schacht-Programm DN 400

## Gasversorgung

Omniplast Gasrohr-Programm PE 80/100

## Sonderrohr

Omniplast Industrierohr-Programm PVC-U

Omniplast Kabelschutzrohre PVC-U



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