

A Material Difference

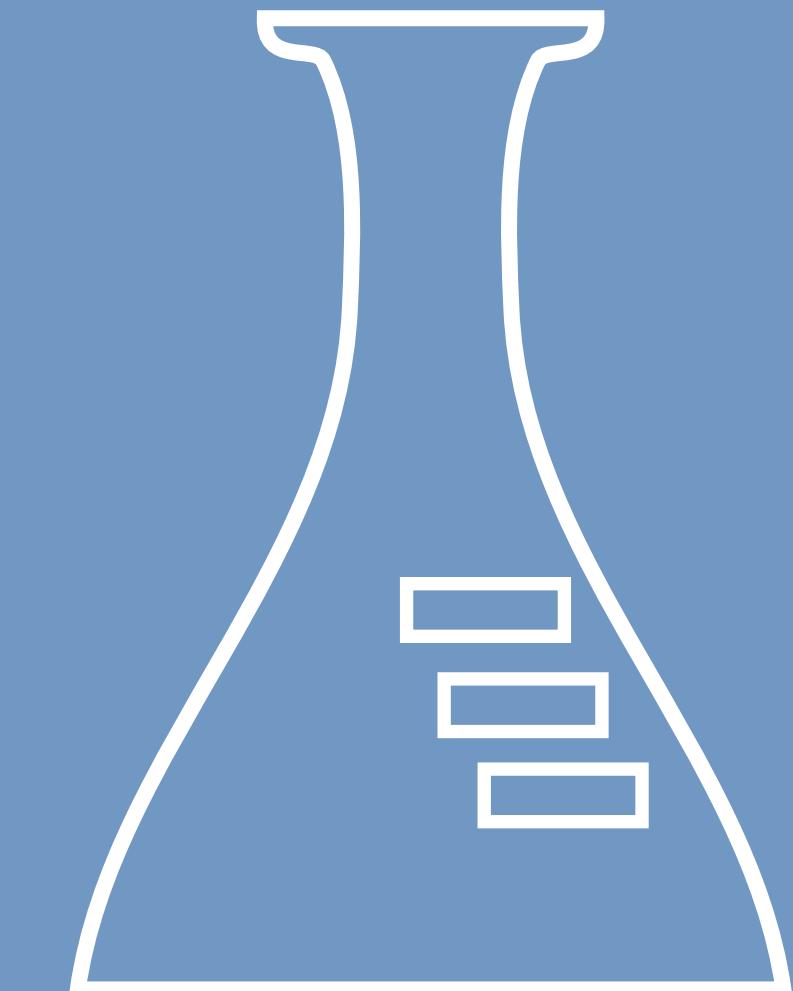
TPE Chemical Resistance



TPE



HEXPOL[®]
TPE



Introduction

Dryflex and **Mediprene** TPE compounds that are based on SBS and/or SEBS rubbers exhibit excellent resistance to water and a wide variety of solutions. However, some degradation in the compounds can be seen at long-term exposure to organic solvents, oils as well as fuels.

Therefore **tests should be carried out** to determine the suitability of TPE in each application that requires chemical resistance.

We recommend that tests are performed under actual service conditions, as the resistance and absorption are highly dependent on the service temperature and other conditions of the end application.

Please [contact us](#) for further information.

Overview

This table gives a short overview of the chemical resistance of Dryflex and Mediprene TPE compounds based on SBS and/or SEBS.

| CHEMICAL | RESISTANCE |
|--|---|
| ACIDS (excluding carboxylic acids) Carboxylic acids Bases Tensides | Good Swells Excellent Excellent |
| FOOD Fatty food Oil in water Water in oil Alcohol | Swells Excellent Swells Good |
| HYDROCARBONS Aliphatic hydrocarbons Aromatic hydrocarbons Polar hydrocarbons | Swells Dissolves Swells / Dissolves |
| OIL METHANOL and ETHANOL (moderate concentrations) | Swells Good |

SEBS Based TPE Compounds

In the tables on the following pages we give an indication of the chemical resistance of Dryflex and Mediprene grades based on SEBS. The tests were performed by Kraton Polymers. A harder material is in general more resistant than a softer one.

| Media | Conditions RT = Room Temperature | Dryflex DFG 7705 47 Shore A | | | Dryflex DFG 7720 64 Shore A | | | Dryflex DFG 7820 92 Shore A | | |
|-----------------|--|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|
| | | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA |
| Acetone | 7d/RT | -23 | -30 | 35 | -15 | -19 | 0 | -3 | -3 | -1 |
| | 14d/RT | -22 | -29 | 33 | -14 | -18 | 2 | -3 | -3 | -1 |
| | 21d/RT | -16 | -22 | 25 | -11 | -14 | 1 | -1 | -1 | -1 |
| Formaldehyde | 7d/RT | 9 | 11 | -13 | - | - | - | 0.6 | 0.6 | 0 |
| | 14d/RT | 17 | 19 | -18 | - | - | - | 0.7 | 0.7 | 0 |
| | 21d/RT | 24 | 26 | -20 | - | - | - | 0.9 | 0.9 | 0 |
| Propionaldehyde | 7d/RT | -20 | -27 | 7 | -17 | -22 | 4 | -3 | -3 | -1 |
| | 14d/RT | -16 | -21 | 5 | -18 | -13 | 6 | -2 | -2 | -2 |
| | 21d/RT | -18 | -21 | 0 | -18 | -23 | 6 | -2 | -3 | -3 |
| NaOH. 10% | 7d/RT | 0.2 | 0.2 | 5 | -0.2 | -0.5 | 0 | 0 | 0 | 0 |
| | 14d/RT | 0.2 | 0.2 | 5 | -0.1 | -0.1 | -2 | 0.2 | 0.2 | 0 |
| | 21d/RT | 0.2 | 0.2 | 0 | 0 | 0 | -2 | 0.2 | 0.2 | 0 |
| NaOH. 50% | 7d/RT | 0.2 | 0.2 | 3 | -0.2 | -0.2 | -3 | -0.1 | -0.1 | 1 |
| | 14d/RT | 0 | 0 | 3 | -0.2 | -0.2 | -3 | 0 | 0 | 1 |
| | 21d/RT | 0 | 0 | 3 | -0.1 | -0.1 | -2 | 0 | 0 | 1 |

| Media | Conditions RT = Room Temperature | Dryflex DFG 7705 47 Shore A | | | Dryflex DFG 7720 64 Shore A | | | Dryflex DFG 7820 92 Shore A | | |
|-----------------------|--|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|
| | | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA |
| Sulphuric acid. 10 % | 7d/RT | 0 | 0 | -5 | - | - | - | 0 | 0.4 | 0 |
| | 14d/RT | -0.1 | -0.5 | -3 | - | - | - | 0 | 0 | 0 |
| | 21d/RT | 0 | 0 | -3 | - | - | - | 0 | 0 | 0 |
| Sulphuric acid. 50% | 7d/RT | 0.1 | 0.1 | 13 | -0.1 | -0.5 | 3.4 | -0.2 | -0.2 | 0 |
| | 14d/RT | 0.1 | 0.1 | 10 | 0 | 0 | 3.4 | -0.2 | -0.1 | 0 |
| | 21d/RT | 0 | 0.8 | 13 | 0 | 0.5 | 3.4 | -0.1 | -0.1 | 0 |
| Sulphuric acid. 96% | 7d/RT | -0.3 | -0.7 | -3 | -0.2 | -0.2 | -5 | -0.1 | -1 | 0 |
| | 14d/RT | 0 | -0.5 | 5 | 0 | 0.4 | -1 | 0.1 | 0.1 | 0 |
| | 21d/RT | 0.4 | -0.1 | 8 | 0 | 0 | -4 | 0.3 | 0.3 | 0 |
| Formic acid. 10% | 7d/RT | 22 | 26 | -15 | 12 | 14 | -10 | 4 | 4 | -3 |
| | 14d/RT | 43 | 53 | -28 | 25 | 29 | -15 | 5 | 6 | -7 |
| | 21d/RT | 64 | 74 | -38 | 38 | 44 | -19 | 7 | 9 | -9 |
| Acetic acid. 10% | 7d/RT | 33 | 39 | -25 | 21 | 27 | -15 | 5 | 7 | -3 |
| | 14d/RT | 66 | 77 | -38 | 44 | 53 | -18 | 8 | 10 | -4 |
| | 21d/RT | 94 | 110 | -43 | 66 | 79 | -24 | 10 | 13 | -7 |
| Chlorhydric acid. 10% | 7d/RT | 0.5 | 0.5 | -5 | - | - | - | 0 | 0 | 0 |
| | 14d/RT | 1 | 2 | -8 | - | - | - | 0 | 0.5 | 0 |
| | 21d/RT | 2 | 1 | -13 | - | - | - | 0.4 | 0.4 | 0 |
| Nitric acid. 10% | 7d/RT | 0.8 | 0.8 | -1 | 0.4 | -0.4 | -2 | 0 | 0 | 0 |
| Nitric acid. 50% | 7d/RT | 15 | 13 | -6 | 13 | 11 | -6 | 4 | 4 | -1 |
| Lactic acid. konc. | 7d/RT | 0.7 | -1 | 1 | 0.6 | 0.6 | 2 | 0.2 | 0.2 | 1 |
| | 14d/RT | 1.3 | -0.1 | 2 | 1 | 0.6 | 2 | 0.3 | 0.3 | 0 |
| | 21d/RT | 1.5 | -0.2 | 2 | 1.3 | 0.8 | 2 | 0.5 | 0.3 | 0 |
| Lactic acid. 10% | 7d/RT | 1.3 | 0.5 | -1 | 0.6 | -1.9 | -1 | 0.2 | 0.2 | -1 |
| | 14d/RT | 2.1 | 0.3 | -2 | 1.2 | -1.4 | -2 | 0.3 | 0.3 | -1 |
| | 21d/RT | 2.2 | 0.5 | -2 | 1.5 | -1.1 | -3 | 0.3 | 0.3 | -1 |

| Media | Conditions RT = Room Temperature | Dryflex DFG 7705 47 Shore A | | | Dryflex DFG 7720 64 Shore A | | | Dryflex DFG 7820 92 Shore A | | |
|--------------------|--|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|
| | | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA |
| Hydroperoxide. 12% | 3d/RT | 0.2 | 0.2 | -1 | 0.1 | -0.8 | -2 | 0 | 0 | 0 |
| Distilled Water | 7d/80°C | 0.6 | 0.6 | 0 | 0.4 | 0.4 | 0 | 0.6 | 0.6 | 0 |
| Sea Water | 7d/50°C | 0.2 | -0.7 | 0 | -0.2 | -0.2 | 0 | 0.6 | 0.6 | 0 |
| Soap solution. 30% | 7d/RT | 0.5 | 0.5 | -4 | 0.2 | -0.6 | -4 | -0.3 | -0.3 | -1 |
| | 14d/RT | -2 | -4 | -2 | -3 | -5 | -1 | 2 | -3 | 0 |
| | 21d/RT | -5 | -9 | -1 | -6 | -9 | 0 | -4 | -5 | 1 |
| Soap | 7d/RT | -4 | -5 | -2 | -4 | -5 | -1 | -3 | -3 | 0 |
| | 14d/RT | -7 | -10 | 0 | -7 | -10 | 1 | -4 | -5 | 1 |
| | 21d/RT | -11 | -15 | 2 | -11 | -15 | 3 | -5 | -8 | 0 |
| Methanol | 7d/RT | -7 | -10 | 15 | -2.3 | -3.1 | 0 | 0.5 | 1.5 | -1 |
| | 14d/RT | -7 | -9 | 12 | -1.6 | -2.5 | 0 | 1 | 1 | -1 |
| | 21d/RT | -6 | -8 | 18 | -1.2 | -1.6 | -2 | 2 | 2 | -1 |
| Ethanol | 7d/RT | -7 | -9 | 2 | -5 | -5 | 1 | -0.8 | -0.8 | 0 |
| | 14d/RT | -7 | -9 | 2 | -5 | -5 | 1 | -0.2 | -0.2 | -1 |
| | 21d/RT | -7 | -9 | 1 | -5 | -5 | 1 | 0.6 | 0.6 | -1 |
| Butanol | 7d/RT | -25 | -33 | 65 | - | - | - | -4 | -5 | 0 |
| | 14d/RT | -29 | -39 | 83 | - | - | - | -6 | -8 | 1 |
| | 21d/RT | -30 | -40 | 83 | - | - | - | -6 | -8 | 1 |
| Isopropanol | 7d/RT | -25 | -35 | 21 | -21 | -27 | 13 | -4 | -5 | 0 |
| | 14d/RT | -29 | -35 | 27 | -23 | -30 | 17 | -5 | -5 | 0 |
| | 21d/RT | -30 | -40 | 32 | -24 | -32 | 21 | -5 | -6 | 0 |
| Ethyl acetate | 7d/RT | -18 | -25 | -1 | -14 | -18 | 2 | -4 | -6 | 0 |
| | 14d/RT | -18 | -26 | -2 | -15 | -19 | 4 | -5 | -7 | 0 |
| | 21d/RT | -19 | -26 | -4 | -15 | -20 | 4 | -5 | -6 | 0 |

| Media | Conditions RT = Room Temperature | Dryflex DFG 7705 47 Shore A | | | Dryflex DFG 7720 64 Shore A | | | Dryflex DFG 7820 92 Shore A | | |
|---|--|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|
| | | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA |
| Ethylene glycol | 7d/RT | 1 | 0.2 | -1 | 1 | 3 | 0 | 0 | 0 | 0 |
| | 14d/RT | 2 | 1.5 | -2 | 1.5 | 3 | -2 | 0.3 | 0 | 0 |
| | 21d/RT | 3 | 3 | -4 | 3 | 5 | -3 | 0.4 | 0 | -1 |
| Formaldehyde | 7d/RT | 9 | 11 | -5 | 2.5 | 3 | -9 | 0.6 | 0.7 | 0 |
| | 14d/RT | 17 | 19 | -7 | 5 | 6 | -10 | 0.7 | 0.7 | 0 |
| | 21d/RT | 24 | 26 | -8 | 7 | 8 | -10 | 0 | 0.7 | 0 |
| Glycerine | 7d/RT | -0.1 | -0.1 | 0 | -0.1 | -0.1 | -1 | 0 | 0 | 0 |
| | 14d/RT | -0.1 | -0.1 | -1 | 0 | 0 | -1 | 0 | 0 | 0 |
| | 21d/RT | 0 | 0 | -1 | -0.1 | -0.1 | -3 | 0 | 0 | 0 |
| Chlorine water | 7d/RT | -0.1 | -0.1 | 0 | 0 | 0 | 0 | 0.1 | -0.1 | 0 |
| Sodium chloride solution, 10% (NaCl) | 7d/RT | 0.1 | 0.1 | -1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14d/RT | 0.2 | 0.2 | -1 | 0.1 | 0.1 | 0 | 0.1 | 0.1 | 0 |
| | 21d/RT | 0.1 | 0.1 | -1 | 0.1 | 0.1 | 0 | 0.1 | 0.1 | 0 |
| Methylene chloride | 7d/RT | 8 | -8 | -18 | 10 | -3 | -9 | 9 | 0 | -3 |
| | 14d/RT | 13 | -5 | -24 | 10 | -3 | -12 | 7 | -3 | -5 |
| | 21d/RT | 13 | -4 | -28 | 12 | -2 | -16 | 7 | -3 | -7 |
| MEK (Methyl ethyl ketone) | 7d/RT | -20 | -26 | 23 | -12.7 | -15.6 | -2 | -6 | -6 | -1 |
| | 14d/RT | -21 | -27 | 33 | -13.7 | -21.8 | 3.4 | -6 | -7 | -1 |
| | 21d/RT | -21 | -27 | 35 | -13.5 | -17 | 3.4 | -6 | -7 | 0 |
| Hydraulic brake fluid | 7d/RT | -5 | -7 | -3 | -4 | -6 | 0 | 0.4 | 0.4 | -1 |
| | 14d/RT | -7 | -10 | -2 | -5 | -7 | -1 | 0 | 0 | 0 |
| | 21d/RT | -8 | -12 | -2 | -6 | -9 | -1 | 0 | 0 | 0 |
| | 70 hours/120°C | -23 | -33 | 21 | -18 | -27 | 15 | -6 | -6 | 1 |
| | 7d/120°C | -23 | -33 | 21 | -19 | -28 | 16 | -7 | -7 | 1 |

| Media | Conditions RT = Room Temperature | Dryflex DFG 7705 47 Shore A | | | Dryflex DFG 7720 64 Shore A | | | Dryflex DFG 7820 92 Shore A | | |
|---|--|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|
| | | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA | %-weight | %-vol | %-ShA |
| Petrol A (Isooctane) | 7d/RT | 4 | 19 | -18 | - | - | - | -0.5 | 6 | -6 |
| | 14d/RT | 5 | 20 | -25 | - | - | - | -0.6 | 6 | -6 |
| | 21d/RT | 4 | 19 | -20 | - | - | - | -0.4 | 6 | -7 |
| Petrol B (Isooctane/toluole) (70/30) | 7d/RT | -20 | -19 | 70 | 0.8 | 12.1 | -93 | 11 | 28 | -22 |
| | 14d/RT | -44 | -52 | 70 | -18.5 | -16 | -74 | 7 | 23 | -19 |
| | 21d/RT | -51 | -59 | 108 | -34.7 | -38.6 | -40 | 8 | 28 | -22 |
| Petrol C (Isooctane/toluole) (50/50) | 7d/RT | -18 | -19 | -90 | - | - | - | -1 | 18 | -15 |
| | 14d/RT | -29 | -34 | -75 | - | - | - | -12 | 8 | -15 |
| | 21d/RT | -23 | -38 | -70 | - | - | - | -11 | 6 | -20 |
| Petrol (lead-free) | 7d/RT | 34 | 57 | -100 | - | - | - | 8 | 21 | -21 |
| | 14d/RT | -12 | -11 | -88 | - | - | - | -2 | 17 | -21 |
| | 21d/RT | -21 | -24 | -83 | - | - | - | -2 | 12 | -21 |
| ASTM oil #1 | 7d/100°C | 45.5 | 60.5 | -48 | 26.9 | 35.5 | -33 | 7.8 | 9.7 | -5 |
| | 14d/100°C | 58.9 | 78.6 | -55 | 29.1 | 39.1 | -38 | 8.5 | 9.5 | -6 |
| | 21d/100°C | 68.7 | 91.4 | -63 | 30.4 | 40.5 | -40 | 9.0 | 11.4 | -5 |
| ASTM oil #3 | 7d/100°C | 18 | 20 | -85 | 36.2 | 44.1 | -69 | 37 | 44.1 | -69 |
| | 14d/100°C | 18 | 17 | -85 | 26.8 | 32.4 | -76 | 27 | 32.4 | -76 |
| | 21d/100°C | 6 | 2 | -85 | 21.8 | 25.5 | -81 | 25 | 25.5 | -81 |
| Consistent grease (Shell Retinax A) | 7d/40°C | 17 | 21 | -15 | 8.2 | 9.6 | -7 | 4 | 5 | -1 |
| | 14d/40°C | 25 | 30 | -18 | 18 | 22.1 | -17 | 5 | 6 | -2 |
| | 21d/40°C | 31 | 40 | -30 | 21.8 | 27.1 | -19 | 6 | 7 | -3 |

Chemical Resistance of SEBS Raw Materials

| | | | | | | | | | |
|---------------------------------------|----|-----------------------------|----|--|----|----------------------------|----|----------------------------|----|
| 1. Acetaldehyde | R | 38. Butane | NR | 75. Ferrous chloride | R | 111. Molybdenum disulphide | R | 148. Sodium ferrocyanide | R |
| 2. Acetates (low mol. weight) | R | 39. Butyl acetate | NR | 76. Ferrous sulphate | R | 112. Monoethanolamine | T | 149. Sodium hydrosulfite | R |
| 3. Acetic acid | R | 40. Butyl alcohol (butanol) | T | 77. Fluoborate salts | R | 113. Naphta | NR | 150. Sodium hydroxide | R |
| 4. Acetic anhydride | T | 41. Butyric acid | R | 78. Fluoboric acid | R | 114. Natural gas | NR | 151. Sodium hypochlorite | R |
| 5. Aceto nitrile | R | 42. Calcium oxide (diluted) | R | 79. Fluo-cilicic acid | R | 115. Nickel salt | R | 152. Sodium nitrate | R |
| 6. Acetone | T | 43. Calcium salts | R | 80. Formaldehyde | R | 116. Nitric acid | R | 153. Sodium silicate | R |
| 7. Acetyl bromide | R | 44. Carbon disulfide | NR | 81. Formic acid | R | 117. Nitrobenzene | NR | 154. Sodium sulphide | R |
| 8. Acetyl chloride | R | 45. Carbon dioxide | R | 82. Freon | T | 118. Nitrogen oxides | R | 155. Sodium sulphite | R |
| 9. Air | R | 46. Carbon tetrachloride | T | 83. Gasoline | NR | 119. Nitrous acid | R | 156. Steam (up to 0.3 MPa) | T |
| 10. Alcohols | T | 47. Chloracetic acid | R | 84. Glucose (dextrose) | R | 120. Oils, animal | T | 157. Stearic acid | R |
| 11. Aliphatic hydrocarbons | NR | 48. Chlorine | R | 85. Glue (waterbased) | R | 121. Oils, mineral | T | 158. Styrene | NR |
| 12. Aluminium chloride | R | 49. Chlorobenzene | NR | 86. Glycerine | T | 122. Oils, vegetable | T | 159. Sulphur chloride | R |
| 13. Aluminium sulphate | R | 50. Chlorobromomethane | NR | 87. Hydriodic acid | R | 123. Oleic acid | R | 160. Sulphur dioxide | R |
| 15. Ammonia | R | 51. Chloroform | NR | 88. Hydrobromic acid | R | 124. Oxalic acid | R | 161. Sulphur hexafluoride | R |
| 14. Alums | R | 52. Chlorosulfonic acid | R | 89. Hydrochloric acid | R | 125. Oxygen (gas) | R | 162. Sulphur trioxide | R |
| 16. Ammonium acetate | R | 53. Chromic acid | R | 90. Hydrocyanic acid | R | 126. Perchloric acid | R | 163. Sulphuric acid | R |
| 17. Ammonium carbonate | R | 54. Chromium salts | R | 91. Hydrofluoric | R | 127. Perchlorethylene | T | 164. Sulphurous acid | R |
| 18. Ammonium chloride | R | 55. Copper salts | R | 92. Hydrogen peroxide | R | 128. Phenol | NR | 165. Tannic acid | R |
| 19. Ammonium hydroxide | R | 56. Cresol | NR | 93. Hydrogen sulphide | R | 129. Phosphoric acid | R | 166. Tanning extracts | R |
| 20. Ammonium nitrate | R | 57. Cyclohexane | NR | 94. Hydrochlorous acid | R | 130. Phtalic acid | NR | 167. Tartaric acid | R |
| 21. Ammonium phosphate | R | 58. Cyclohexanone | NR | 95. Iodine and solutions | T | 131. Plating solutions | R | 168. Tin salts | R |
| 22. Ammonium sulphate | R | 59. Diacetone alcohol | R | 96. Kerosene | NR | 132. Polyglycol | T | 169. Titanium salts | R |
| 23. Aniline | T | 60. Dimethyl formamide | R | 97. Ketones (watersoluble) | R | 133. Potassium carbonate | R | 170. Toluene (toluol) | NR |
| 24. Aniline hydrochloride | T | 61. Essential oils | R | 98. Lacquer solvents | NR | 134. Potassium chlorate | R | 171. Trichloracetic acid | R |
| 25. Antimony salts | R | 62. Ethers | NR | 99. Lactic acids | R | 135. Potassium hydroxide | R | 172. Trichloroethylene | NR |
| 26. Aqua regia (75% HCl, 25% HNO3) | R | 63. Ethyl acetate B | R | 100. Lead acetate | R | 136. Potassium iodide | R | 173. Tri-sodium phosphate | R |
| 27. Aromatic hydrocarbons | NR | 64. Ethyl alcohol (ethanol) | T | 101. Linseed oil | NR | 137. Pyridine | R | 174. Turpentine | NR |
| 28. Arsenic salts | R | 65. Ethyl bromide | R | 102. Lithium hydroxide | R | 138. Silicone fluids | R | 175. Urea | R |
| 29. Barium salts | R | 66. Ethyl choride | R | 103. Magnesium chloride | R | 139. Silicone oil | R | 176. Uric acid | R |
| 30. Benzaldehyde | NR | 67. Ethylamine | R | 104. Magnesium sulphate | R | 140. Silver nitrate | R | 177. Vinyl plastisol | NR |
| 31. Benzene | NR | 68. Ethylene chlorohydrin | R | 105. Maleic acid | R | 141. Soap solutions | R | 178. Water | R |
| 32. Benzene sulfonic acid | R | 69. Ethylene dichloride | R | 106. Manganese salts | R | 142. Sodium bicarbonate | R | 179. Xylene (xylo) | NR |
| 33. Benzoic acid | NR | 70. Ethylene glycol | T | 107. Mercury salts | R | 143. Sodium bisulfate | R | 180. Zinc chloride | R |
| 34. Benzyl alcohol | NR | 71. Ethylene oxide | R | 108. Methane | NR | 144. Sodium bisulfite | R | | |
| 35. Bleaching liquors (non-aromatic) | R | 72. Fatty acids | T | 109. Methyl chloride | R | 145. Sodium borate | R | | |
| 36. Boric acid | R | 73. Ferric chloride | R | 110. Mixed acid (40% sulphuric, 15% nitric) | R | 146. Sodium carbonate | R | | |
| 37. Bromine | R | 74. Ferric sulphate | R | | | 147. Sodium chlorate | R | | |

R = Resistance

NR = Not resistance

T = Must be tested before use

ABOUT US



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