



# Chemische Beständigkeit Silikon (SILTOP®)

## Chemical resistance silicone (SILTOP®)

| Versuchsdauer:<br>7 Tage      | Testing period:<br>7 days       | Temperatur<br>Temperature<br>°C | Blähung<br>Swelling<br>% | Variation<br>Shorehärte<br>Shore hardness | Bewertung<br>Evaluation |
|-------------------------------|---------------------------------|---------------------------------|--------------------------|---|-------------------------|
| Aceton                        | Acetone                         | 20                              | + 15,0                   | -10,0                                     | ✓                       |
| Ammoniumhydroxidkonzentrat    | Caustic ammoni (concentrate)    | 20                              | + 1,7                    | + 1,5                                     | ✓                       |
| Anilin                        | Anilin                          | 100                             | + 5,0                    | - 5,0                                     | ✓                       |
| Benzin                        | Benzine                         | 20                              | +150,0                   | -22,0                                     | ○                       |
| Hydraulik-Öl                  | Hydraulic fluid                 | 20                              | + 2,5                    | ± 0                                       | ✓                       |
| Butanol                       | Butanol                         | 117                             | + 60,0                   | -30,0                                     | ○                       |
| Clophen                       | Clophene                        | 150                             | + 15,0                   | - 6,0                                     | ✓                       |
| Dieselöl                      | Diesel oil                      | 20                              | + 65,0                   | -16,0                                     | ○                       |
| Diphenyl                      | Diphyl                          | 150                             | + 26,0                   | -12,0                                     | ○                       |
| Dynamo-Öl                     | Dynamo oil                      | 150                             | + 30,0                   | -30,0                                     | ○                       |
| Essigsäure 100%ig             | Acetic acid 100%                | 20                              | + 8,0                    | - 5,0                                     | ✓                       |
| Leichtes Schmieröl            | Light lubricating oil           | 150                             | + 4,1                    | - 5,0                                     | ✓                       |
| Schweres Schmieröl            | Heavy lubricating oil           | 150                             | + 5,3                    | - 9,0                                     | ✓                       |
| Schmieröl SAE 90              | Lubricating oil SAE 90          | 150                             | + 2,8                    | - 1,0                                     | ✓                       |
| Glycerin                      | Glycerin                        | 100                             | + 0,6                    | - 1,0                                     | ✓                       |
| Kaliumbichromatlösung 20%ig   | Potassium bichromate – sol. 20% | 20                              | + 0,2                    | - 2,0                                     | ✓                       |
| Kaliumhydroxid 50%ig          | Potassium hydroxid 50%          | 20                              | + 0,3                    | - 2,0                                     | ✓                       |
| Leichtes Kompressoröl         | Light compressor oil            | 150                             | + 15,0                   | -19,0                                     | ✓                       |
| Schweres Kompressoröl         | Heavy compressor oil            | 150                             | + 30,0                   | -25,0                                     | ✓                       |
| Kugellagerfett                | Ball bearing grease             | 150                             | + 25,0                   | -20,0                                     | ✓                       |
| Leinöl                        | Linseed oil                     | 100                             | + 0,7                    | - 1,0                                     | ✓                       |
| Mineralöl ASTM Nr. 1          | Mineral oil ASTM No. 1          | 150                             | + 2,6                    | - 5,0                                     | ✓                       |
| Mineralöl ASTM Nr. 3          | Mineral oil ASTM No. 3          | 150                             | + 25,0                   | -35,0                                     | ○                       |
| Mineralöl SAE 30              | Mineral oil SAE 30              | 150                             | + 5,0                    | -17,0                                     | ✓                       |
| Mineralöl SAE 10              | Mineral oil SAE 10              | 150                             | + 15,0                   | -25,0                                     | ✓                       |
| Mineralöl SAE 20              | Mineral oil SAE 20              | 150                             | + 10,0                   | -10,0                                     | ✓                       |
| Viskos-statisches Motorenöl   | Visco-static motor oil          | 150                             | + 14,5                   | -20,0                                     | ✓                       |
| Natriumperchloritlösung 20%ig | Sodium hyperchlorit – sol. 20%  | 20                              | - 0,5                    | - 1,0                                     | ✓                       |
| Natriumlauge 50%ig            | Sodium lye 50%                  | 20                              | - 1,7                    | - 3,0                                     | ✓                       |
| Olivenöl                      | Olive oil                       | 150                             | + 1,5                    | - 7,0                                     | ✓                       |
| Perchlorethylen               | Perchlorethylene                | 20                              | +205,0                   | -13,0                                     | ✗                       |
| Erdöl                         | Crude oil                       | 20                              | + 75,0                   | -15,0                                     | ○                       |
| Phosphorsäure 30%ig           | Phosphoric acid 30%             | 20                              | + 0,3                    | - 2,0                                     | ✓                       |
| Pyridin                       | Pyridine                        | 20                              | + 15,0                   | -16,0                                     | ○                       |
| Rhizinusöl                    | Castor oil                      | 150                             | + 1,2                    | - 5,0                                     | ✓                       |
| Salpetersäure 10%ig           | Nitric acid                     | 20                              | + 0,5                    | + 1,0                                     | ○                       |
| Salzsäure 10%ig               | Hydrochloric acid 10%           | 20                              | ± 0,5                    | ± 0                                       | ✓                       |
| Schwefelsäure 10%ig           | Sulphuric acid 10%              | 20                              | + 0,2                    | + 2,0                                     | ✓                       |
| Stoßdämpferöl                 | Shock absorber oil              | 20                              | + 3,0                    | - 5,0                                     | ✓                       |
| Terpentinöl                   | Turpentine oil                  | 20                              | +115,0                   | -15,0                                     | ○                       |
| Tetrachlorkohlenstoff         | Carbon tetrachloride            | 20                              | +250,0                   | -14,0                                     | ○                       |
| Toluol                        | Toluol                          | 20                              | +100,0                   | -15,0                                     | ○                       |
| Transformatorenöl             | Transformer oil                 | 150                             | + 55,0                   | -40,0                                     | ○                       |
| Wasser                        | Water                           | 100                             | + 0,2                    | + 1,0                                     | ✓                       |
| Wasserstoffperoxyd 30%ig      | Hydrogene peroxide 30%          | 20                              | + 0,1                    | + 1,0                                     | ✓                       |

✓ verwendbar / usable

○ bedingt verwendbar / limited use

✗ nicht verwendbar / not usable