

# Chemical Resistance of Silicone

Substance	Test period 7 days Temperature° C	Classification of requirement
Acetamide	150	●
Acetone	20	○
Ammonium hydroxide (conc.)	20	●
Aniline	100	●
Petrol	20	○
Brake fluid AT	100	●
Butanol	117	○
Butylacetate	20	○
Calcium hydroxide, (saturated)	20	●
Chlorobenzene	20	○
Clophene	150	●
Cloroform	20	○
Vapour up to 2,5 atü	138	●
Diphenyl	150	○
Diesel oil	20	○
Dinamo oil	150	○
Mineral oil	20	○
Acetic acid	20	●
Hydrofluor acid 5%	20	○
Gear oil DTE BB	150	●
Gear oil DTE HH	150	●
Gear oil DTE extra heavy	150	●
Gear oil Type SEA 90	150	●
Prestone	20	●
Glycerin	100	●
Hexa ethoxydisiloxane	20	○
High pressure compressor oil	150	●
Isopropyl alcohol	82	○
Potassium 20%	20	●
Potassium hydroxide 50%	20	●
Potassium permanganate solution	20	●
Carbolineum	20	●
Cooking salt solution 10%	20	●
Carbon tetrachloride	20	○
Compressor oil, light	150	●
Ball bearing fat	150	●
Linseed oil	100	●

● resistant  
○ conditionally resistant  
○ not resistant

Substance	Test period 7 days Temperature° C	Classification of requirement
Methanol	65	○
Methylen chloride	20	○
Mineral oil ASTM No. 1	150	●
Mineral oil ASTM No. 3	150	○
Mineral oil SEA 10	150	●
Mineral oil SEA 20	150	●
Mineral oil SEA 30	150	●
Mono styrene	20	○
Motor oil viscose static	150	●
Sodium 20%	20	●
Soda 50%	20	●
Nitrobenzene	20	●
Oleic acid	150	○
Olive oil	150	●
Perchlor	20	○
Petroleum ether	20	○
Petroleum	20	○
Phenol	60	●
Phosphoric acid 30%	20	●
Pyridine	20	○
Regulator oil	150	○
Castor oil	150	●
Hydrochlorid acid 10%	20	●
Nitric acid conc.	20	○
Nitric acid 10%	20	○
Sulfuric acid, conc.	20	○
Sulfuric acid, 10%	20	●
Shock absorber oil	20	●
Turbentine oil	20	○
Toluene	20	○
Transformer oil	150	○
Tri	20	○
Tri glycol	20	●
Vaseline	150	●
Water	100	●
Hydrogen peroxide 30%	20	●
Hydrogen superoxide 30%	20	●

The information mentioned in this summary is given to the best of our own knowledge and based upon our long standing experience. But we would like to direct your attention to the fact, that the information is given without obligation. A final judgement can only be made in practice.

## Resistance of substances against solvents, oils and fats

Substance	PVC Y	PA 4 Y	PTFE 5 Y	FEP 6 Y	ETFE 7 Y
Alcohol, methylated spirit	○	○	●	●	●
Brake fluid for vehicles	○	○	●	●	●
Bromide chloridfluormethane	○	○	●	●	●
Jet gasoline IP4	○	○	●	●	●
de-icing and icing protective agent	○	○	●	●	●
Aircraft lubricating grease	○	○	●	●	○
Hydraulic oil on bas of mineral oil	○	○	●	●	○
Hydraulic liquid (chlor-free silicone liquid)	○	○	●	●	●
Hydraulic liquid (synthetic)	○	○	●	●	●
Methylethylketon	○	○	●	●	●
Otto-gasoline, diesel gasoline	○	○	●	●	●
Lubricating oil for recebrocating engine SAE 10 W	○	○	●	●	○
Lubricating oil for jet engine (synthetic)	○	○	●	●	○
Toluene-Isooctane (Toluene 30%, Isooctane 70%)	○	○	●	●	●
Trichlorethane	○	○	●	●	●
Urine	●	●	●	●	●

● = resistant  
○ = conditionally resistant  
○ = not resistant

PVC = Polyvinylchloride Y  
PA = Polyamid 4 Y  
PTFE = Polytetrafluorethylene 5 Y

FEP = Fluorethylenepropylene 6 Y  
ETFE = Tetrafluorethylene 7 Y