

SILICONES

and more

Nedform Silicone Oil

Silicone oil is made from silicon. Nedform silicone oil can be used for countless purposes.

- ✓ minimal change in physical properties over a wide temperature range
- ✓ excellent water-repellent properties
- ✓ good dielectric properties
- ✓ low surface tension and therefore high surface activity chemically very non-reactive
- ✓ low pour point
- ✓ good solubility in a wide range of solvents

Technical properties

Viscosity, Cst	Flashpoint, °C COC	Freezing point, °C	Specific gravity, 25 °C	Surface tension, mN/m	Refrac. index at 25 °C
0,65	-4	-67	0,760	15,9	1,375
1	40	-85	0,816	17,4	1,382
2	48	-90	0,830	18,1	1,387
3	62	-100	0,900	18,9	1,392
5	136	-65	0,910	19,7	1,397
10	162	-65	0,930	20,1	1,399
20	230	-60	0,950	20,6	1,400
50	280	-55	0,959	20,7	1,402
100	>300	-55	0,965	20,9	1,403
200	>300	-50	0,970	21,0	1,403
300	>300	-50	0,970	21,1	1,403
350	>300	-50	0,970	21,1	1,403
500	>300	-50	0,970	21,1	1,403
1000	>300	-50	0,970	21,2	1,403
5000	>300	-50	0,975	21,4	1,403
10000	>300	-50	0,975	21,5	1,403
12500	>300	-50	0,975	21,5	1,403
30000	>320	-50	0,975	21,5	1,403
60000	>300	-50	0,975	21,5	1,403
100000	>300	-50	0,976	21,5	1,404
300000	>300	-45	0,976	21,5	1,404
500000	>300	-40	0,976	21,5	1,404

Processing in silicone

Take the desired amount of A-component from your silicone and add the correct amount of B-component (indicated on the information sheet of your silicone). Stir the mixture well. Now take the silicone oil and add it to the silicone mixture. By varying between 1 and 15% oil, you can determine how much softer / more flexible the end result will be.

Adding 8% oil is seen by many people as a considerable reduction in hardness (about 3-5 shore points lower) and is therefore recommended.

Adding more than 10% oil can have an unacceptable effect on the final strength of the cured silicone and is therefore not recommended.

You can also add the silicone oil with the aim of making the silicone more fluid. This will make it easier to bleed and it will be easier to get into cracks. Also in this case we advise you not to add more than 10%.

Special instructions

Adding silicone oil is a form of adjusting your silicone. You should take into account that the final values, in certain areas, will differ from the values indicated on the information sheets of the silicones. Oil will not cross-link into the silicone. This means that it will slowly sweat out over time (years) and when the silicone is under tension. This gives a greasy layer on the silicone.

shelf life

At least 5 years.