

## 100% Pure Silicone Lubricant NSF



**Bardahl 100% Pure Silicone Lubricant H1** is a clear silicone fluid for many applications. This product is an efficient for mechanical parts constructed of plastic, rubber, neoprene, laminated fabrics, wood, etc. It can be used safely on metals or metal to synthetic friction areas of contact to lubricate and reduce wear. It provides an effective, long lasting film that remains clear and leaves no stain or residue. It is non-toxic and all ingredients comply with FDA regulations. NSF Certified, which means that incidental and limited contact in the production of food is allowed.

### Features

- Little change in physical properties over a wide temperature range.
- H1 application
- The fluid can be used from -40°C to 280°C.
- Excellent water repellency.
- Low surface tension. The fluid readily 'wets' clean surfaces to impart water repellency and release characteristics.
- Low toxicity.

### Applications

1. **As a release agent.** Used purely or as a part of a compounded formula **Bardahl Silicone Fluid** provides a non-toxic, non-carbonizing mould release for rubber, plastics and metal die-castings.
2. **As an Anti-Foam agent.** Very small quantities of the fluid are effective as a foam control agent, especially in non-aqueous systems.
3. **As a mechanical fluid.** A high viscosity-index plus thermal and chemical stability with shear- resistance, compatibility with rubber and compressibility make this fluid outstanding for mechanical and hydraulic uses.
4. **As a lubricant.** The fluid provides excellent lubricating properties for most plastic and elastomer surfaces. Lubricity with metals depends upon the possible combinations such as P.T.F.E., MoS<sub>2</sub> and other lubricity improvers.
5. **In cosmetics and skin preparations.** Silicone Fluid is an important ingredient in hand creams, skin protectors, suntan lotions and hair grooming aids because it forms a non-greasy, protective film which resists water, yet it allows the skin to breathe.
6. **In polishes and chemical specialties.** Silicone Fluid is used in most automobile and furniture polishes for its ease of application, high gloss finish with ease of application and durable water repellent film.
7. **In electrical and electronic equipment.** Because of the excellent dielectric properties Silicone Fluid is widely used as an insulating and damping fluid.



# Product informatie

**Bardahl 100% Pure Silicone Lubricant** has been the subject of extensive toxicological studies. The oil is non-toxic and non-irritating. A temporary discomfort to the eyes may occur due to the hydrophilic properties. The oil is approved as a food additive and/or for use in food preparation in most countries of the world. Amongst other main US: F.D.A. regulations concerned are:

173.340 (formely 121.1099), 175.105 (121.2520), 175.300 (121.2514), 167.170 (121.2526), 176.180 (121.2571), 167.200 (121.2557), 176.210 (121.2519), 177.1210 (121.2550), 177.2280 (121.2500), 178.3570 (121.2553), 178.3910 (121.2531), 181.28 (121.2001).

The oil is also used in a medical grade quality for pharmaceutical preparations as well as for cosmetics applications (FDA/CRMCS N\*200-1033).

## Storage and Shelf Life

**Bardahl Silicone Fluid** has an unlimited useful life when stored at ambient temperatures. The product does not freeze and there are no restrictions on storage.

## Analytical-data

<b>Viscosity, Cst. 25°C</b>	<b>50</b>	<b>350</b>	<b>12500</b>
Flashpoint °C COC	>300	>300	>300
Freezing point °C	-50	-50	-50
Specific gravity 25°C	0,97	0,970	0,970
Surface Tension mN/m	21,1	21,1	21,5
Refrac. index 25°C	1,403	1,403	1,403

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