

100% Silicone Lubricant H1

Concentrated Silicone Oil



NSF Reg. No. 155 101
Category Code: H1

Characteristics

Bardahl 100% Pure Silicone Lubricant H1 is a crystal clear, multi-purpose silicone liquid designed for a wide range of applications. This silicone fluid is ideal as a lubricant for plastic, rubber, neoprene, laminated materials, wood, and more, thanks to its excellent sliding and lubrication properties. It can also be used effectively on metal and metal-on-plastic surfaces to reduce friction and create a long-lasting, clear film that leaves no residue. With a wide temperature range from -40°C to +280°C and the excellent water-repellent properties, this product provides long-lasting protection and lubrication. Additionally, it is non-toxic and NSF certified for use in the food industry, making it safe for incidental food contact.

Application

The applications of Bardahl 100% Pure Silicone Lubricant are diverse, making it an essential product for the food and beverage industry, as well as for pharmaceutical and cosmetic applications. It serves as an effective release agent for rubber, plastics, and metal castings, as a defoamer in non-aqueous systems due to its low surface tension, and as a mechanical fluid for hydraulic applications due to its high viscosity index and thermal stability. In addition, it is an important ingredient in cosmetics such as hand creams and hair care products. It is also used in automotive polishes and furniture, as well as in the electrical and electronics industry as an insulating and water-repellent fluid.

Safety Data Sheet (MSDS)

Safety Data Sheets (MSDS) for Bardahl products are available upon request. These documents, which provide detailed safety information about the product, can be accessed through Bardahl's official website. Moreover, you can also obtain it by contacting a representative at Bardahl directly. This ensures that users and processors of Bardahl products have the necessary information on the safe use, handling and storage of these industrial lubricants.

NSF

The NSF certification is a quality brand mark that is recognized worldwide for products used in the food industry, including Bardahl Food Products. This certification is awarded by NSF International, an independent organization that protects public health and safety. An NSF certificate ensures that the product meets strict standards for hygiene, safety, and quality. For food and pharmaceutical manufacturers and processors, the use of NSF-certified products is crucial, as it helps ensure the safety of their manufacturing processes and the final product. This contributes to consumers' confidence in the safety of the foods they consume and supports regulatory compliance. The use of NSF-certified lubricants is an essential step for companies striving for the highest operational standards and quality assurance in their manufacturing processes.

Key Benefits to Consider

Core product features of Bardahl 100% Silicone Lubricant H1

- ✓ Wide Temperature Range: Functional from -40°C to +280°C.
- ✓ Versatile Applicability: Suitable for plastic, rubber, neoprene, wood, and metal surfaces.
- ✓ Non-Toxic: Safe for use in the food, pharmaceutical, and cosmetic industries.
- ✓ Freeze-resistant: Does not freeze and is stable when stored at normal ambient temperature.
- ✓ Inert Liquid: Does not undergo chemical reactions under extreme conditions.

Certificates & Standards

- ✓ NSF Registration number: 155 101
- ✓ Category code: H1
- ✓ Food Grade Standards FDA:
 - 173.340 (voorheen 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)

Category	Test	Unit	Results
Viscosity at 25°C	cSt	50	350
Flashpunt °C COC	°C	>300	>300
Pourpoint °C	°C	-50	-50
Density 25°C	g/ml	0,97	0,97
Surface Tension mN/m	mN/m	21,1	21,1
Refraction-index 25°C		1,403	1,403

Content Availability	Unit	Article number
Cartridge	400 gram	76304 ✓
Small packaging	5 liter	76315 ✓
Bulk packaging	20 liter	76320 ✓

Bardahl – For a world without friction

Bardahl is committed to providing advanced lubrication solutions tailored to your specific needs. With a focus on innovation and technical excellence, we have been serving a wide range of industries worldwide for over eight decades. Our team of experts, driven by a passion for tribology, provides personalized support and advice to ensure the success of our clients in different markets. Leveraging our extensive experience, we develop high-quality lubricants that are designed to meet the changing requirements of our customers.

The document's data is based on Bardahl's extensive experience and is aimed at technically experienced readers and provides insight into potential applications. It is important to note that the document does not guarantee product features, and users must conduct their own preliminary tests for specific applications. The data provided are indicative and depend on the composition, use and application method of the lubricant. Because the performance of lubricants can vary under different mechanical, dynamic, chemical, and thermal conditions, these factors can affect the functionality of components. Bardahl encourages direct contact to discuss specific applications and is open to providing samples for testing. Please note that Bardahl is constantly improving its products and reserves the right to change technical data at any time.