



Aerolube Technologies



Technical Data Sheet

Siltech 644 L / M Silicone Oil & Special Lithium Soap Based Grease for High Temperature Bearing Lubrication

Product Description

Stanvac Siltech 644 grease is based on a special heat stable silicone fluid and lithium soap thickener along with additives to impart resistance to high temperature oxidation. This grease is capable of withstanding very high temperatures and inherently possesses a high degree of shear stability and resistance to oxidation. It does not dry out, harden or melt even after long-term exposure to high temperatures and has very good resistance to water, steam, humid environments and chemicals. It is very effective for lubrication of bearings under light to moderate loads and metal and plastic surfaces.

Applications

For lubrication of rolling element bearings operating under light to moderate loads as in oven fans, exhaust motors, kiln pre-heaters, oil burners, textile slashers and driers, conveyors, washing machines, air conditioners, domestic appliances, data processing equipment, aircraft engines, radiator cooling fans, electrical motors, vacuum machines and plastic components.

Benefits

- Extremely wide service temperature range of -40°C to +204°C
- Exceptionally good oxidation resistance
- High shear stability
- Does not thin out at high temperatures
- Stable, chemically inactive and inherently more inert than petroleum based products
- Resistant to ageing, water, moisture, steam, humidity and corrosive environments
- Nontoxic and non-staining
- Low evaporation and does not volatilize at higher temperatures
- Safe for use on metal, plastic and rubber components (except silicone)

Directions for Use

Use as supplied. Never dilute or mix with other oil or grease. Apply on all clean sliding surfaces by normal greasing methods i.e. by brush, grease gun or dispense via centralized lubrication systems.

General

Use in well ventilated areas. Avoid continuous breathing of vapor and spray mist. In closed areas or areas with poor ventilation, use respiratory protection. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

Aerolube Technologies

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TECHNICAL PROPERTY

Parameter	Value	Unit	Standard	
	644 L	644 M		
Type	Silicone grease	Silicone grease		
Appearance	Smooth grease	Smooth grease		
Base oil	Silicone	Silicone		
Thickener	Lithium soap	Lithium soap		
Color 1	Amber brown	Amber brown		
Penetration, worked	290-330	265-295	mm/10	ASTM D 217
NLGI consistency	1-2	2	Class	DIN 51 818
Density, @ 25°C	1.0-1.05	1.0-1.05	g/cm ³	
Drop point	+220	+220	°C	ASTM D 566
Service temperatures	-40 to +204	-40 to +204	°C	
Speed, max DN value ²	350,000	300,000	mm min	
Bleed, 24h @ 150°C	2.5	1.5	%	
Oil separation, standard test, 168 h, 40°C	< 2.5	2	%	DIN 51 817
Oxidation resistance, 100 h, pressure drop	0.1	0.1	bar	DIN 51 808

1. Minor color variation of the same product but of different batches could be possible. However the lubrication values remain unchanged.

Available Packaging

1 Kg

Shelf Life

36 months from date of manufacture in sealed condition.

Disposal

All used and unused product should be disposed of in accordance with state regulations.

Handling

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding personal protective equipment, safe use, physical and health hazards. Safety data sheet is available from Aerolube or your local Aerolube distributor.

Limited Warranty

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended Stanvac product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty. Product manufactured is for industrial use only.

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