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Silicone Grease product notes

The product ***comprises*** POLY-DIMETHYL-SILOXANE fluid thickened with inert siliceous clay. The fluid is SILICONE - a polymer of the elements SILICON and OXYGEN, with organic (dimethyl) polymer side branches. Therefore silicones are mixed inorganic/organic polymers.

The general ***properties*** of SILICONES are

High electrical resistance

Good thermal stability

Good heat transmission

Water repulsion

Resistance to oxygen, ozone and UV light, though not for use in high oxygen pressure/content gas environments

High lubricity

Low toxicity (does not support bacterial growth)

High gas permeability (good for some medical applications, but making it a poor gas seal)

Poor miscibility (therefore of limited use with additives)

Compressibility is high

applications

Silicone grease lubricates rubbers and plastics and other materials and combinations of these with metals.

It protects parts including brake steering and combinations of these with metals.

It protects and lubricates auto parts including brakes steering and gear change components.

It will seal and protect rubber 'O' rings e.g. in assembly of PVC pipes.

Also for use as a release agent for epoxy and polyester castings and as a conditioning agent for mould surfaces

Temperature range: -20degC to +200degC

UK Water Fitting bye laws approved: Water Regs Approval Scheme (WRAS) no 2201513
Approval Holder E Martin & Co. Silicones product names: **PlumbSil Silicone Grease & PlumbSil HT Silicone Grease**

US Food & Drug Administration approved ingredients for incidental contact with food where 'incidental contact' is defined as the smallest needed to accomplish the desired technical effect on the equipment

Examples of such uses include protective antirust film, release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations where the lubricated part is potentially exposed to food.

CAS no: 63148-62-9 (silicone fluid)

CAS no: 112945-52-5 (fumed silica thickener)

UN Tariff Code: 3910000015

NON-HAZARDOUS for transport

Silicone Grease product notes

Food Safety

The **thickener (SILICONE DIOXIDE as fumed silica)** E.551 is authorised as a food additive in the European Union (EU) in accordance with Annex II and Annex III to Regulation (EC) No 1333/2008 on food additives and specific purity criteria are defined in the Commission regulation (EU) No 231/2012.

Under US FDA CFR- Code of Federal Regulations
Title 21, Volume 3
(Last update 29 Mar 2022)
(CITE: 21CFR172.480)

SO₂ (the thickener) is classified as a permitted additive to food for human consumption.

PolyDimethylSiloxane (the lubricant fluid) is classified as a permitted lubricant for incidental food contact.

Under US FDA CFR – Code of Federal Regulations Title 21
Title 21, Volume3
(Last update 25 May 2022)
(CITE: 21CFR178.3570)

Incidental food contact

https://www.cfsanappsexternal.fda.gov/scripts/fdcc/?set=IndirectAdditives&sort=Sortterm_ID&order=ASC&startrow=1&type=basic&search=silicone

is the relevant webpage from the list of US Food & Drug Administration approved ingredients for **incidental contact with food**, where ‘incidental contact’ is defined as the smallest needed to accomplish the desired technical effect on the equipment.

Examples of such uses include protective antirust film, release agent on gasket or seals of tank closures, and as a lubricant for machine parts and equipment in locations where the lubricated part is potentially exposed to food.