



FGSE35-2017 NPF Food Grade Silicone Emulsion

35% Food Grade PDMS Silicone Emulsion: Nonyl Phenol Free Formulation



FGSE35-2017 is water-based silicone lubricant/release agent formulated for food processing/packaging applications where incidental contact with food may occur.

FGSE35-2017 NPF Food Grade Silicone Emulsion is a 35% active silicone emulsion comprised of Polydimethylsiloxane 350cSt (food grade) that can be diluted with cool tap water to achieve desired consistency. It is a non-flammable & non-toxic Silicone Emulsion that is safe to use in an open environment.

Further, **FGSE35-2017 NPF Food Grade Silicone Emulsion is Nonyl phenol free!!!** It can ship to Canada and the EU without restrictions.

FGSE35-2017 NPF Silicone Emulsion complies with FDA 21 CFR specification for incidental food contact, including:

- FDA 21 CFR 175.300 Resinous and Polymeric Coatings
- FDA 21 CFR 175.170 Components of Paper & Paperboard in Contact with Aqueous & Fatty Foods
- FDA 21 CFR 175.180 Components of Paper & Paperboard in Contact with Dry Food
- FDA 21 CFR 177.1210 Closures with Sealing Gasket for Food Containers
- FDA 21 CFR 178.3570 Lubricants with Incidental Food Contact



Excellent release agent in manufacture of Paper and Paperboard



Lubricant in manufacture of plastic cups, plastic plates, plastic bowls...



Lubricate conveyor belts and cables

Typical Properties

Product Code	FGSE-35-2017
Appearance	Milky-white appearance
Emulsifier Type	Nonionic
Active Ingredient	PDMS Polydimethylsiloxane
Silicone Content	35%
Viscosity of active Silicone	350cSt
Specific Gravity	1.0
Color	White
Diluent	Water
Storage	12 months
Common dilution ration *	4-parts of water to 1-part of concentrate = 7% active silicone in final film.

*Some applications may require different dilution ratios

Features

- 35% Active PDMS Silicone in the Emulsion
- NPF- Nonyl Phenol Free!!
- Formulated for Incidental Food Contact
- Meets FDA 21 CFR specifications incidental Contact with food
- Excellent Lubricity
- Non-Flammable: can be used on hot surfaces
- Contains no solvents or petroleum distillates
- Exempt from federal VOC regulations

Applications:

Food Processing & Packaging: meets requirements for incidental contact with food in food processing and food packaging areas.

Release Agent for Paper and Paperboard in the manufacture of bathroom tissue, napkins, paper towels, paper plates, paper cups, plastic cups, plastic plates, ice cream containers etc.

Mold Release Agent: provides multi-part release of plastics, foams and latex rubbers – excellent release agent for plastic molds

Excellent food grade lubricant for O-rings, gaskets, valves and seals

Release Agent for aluminum foil pans, plastic cups in vending machines

Packaging

1-gallon (3.785 liters).....	3.7kg net wt.
5-gallon pail (18.9 liters).....	18.5kg net wt.
55-gallon drum (208 liters).....	204kg net wt.

F.O.B. Phila, PA U.S.A.

For More Info, Contact:

Clearco Products Co., Inc.

15 York Road
Willow Grove, PA 19090
U.S.A.

Tel: (215) 366-7860

Fax: (215) 366-7862

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com

FDA Status

FGSE35-2017 NPF Food Grade Silicone Emulsion may be used in food contact applications where FDA regulations apply. It meets corresponding FDA 21 CFR specifications for use in food processing and food packaging applications where incidental contact with food may occur.

FDA 21 CFR 175.300 Resinous and Polymeric Coatings

FDA 21 CFR 175.170 Components of Paper & Paperboard in Contact with Aqueous & Fatty Foods

FDA 21 CFR 175.180 Components of Paper & Paperboard in Contact with Dry Food

FDA 21 CFR 177.1210 Closures with Sealing Gasket for Food Containers

FDA 21 CFR 178.3570 Lubricants with Incidental Food Contact

CAS Information

Ingredient Description	CAS No.	Weight %
Water	7732-18-5	60 to 100%
Polydimethylsiloxane	63148-62-9	30 to 60%
Polyoxyethylene sorbitan mono-oleate	9005-65-6	1 to 5%
Secondary Alcohol Ethoxylate	84133-50-6	1 to 5%

Instructions for Use

Normally use at a concentration of 0.2% >. A 2.0% silicone concentration is an excellent starting point for evaluating these products in new applications. **FGSE35-2017 NPF** Food Grade Silicone Emulsion can be applied by brushing, wiping or spraying.

Final Properties

Upon evaporation, the product will form a thin film of silicone oil.

Hard Water Dilution

Silicone emulsions are generally stable in hard water. However, should the water supply be of 200ppm hardness or higher, softened water or boiled condensate is recommended as a diluent. Dilution of the emulsion with water may result in the need for additional bacteriostat/fungistat to counteract possible microbial activity. It is recommended that each user evaluate the diluted emulsion before putting it into use. Depending on the specific applications and dilution level, it may be necessary to use additional bacteriostat/fungistat in the diluted product.

Freeze/thaw Stability

FGSE35-2017 NPF Food Grade Silicone Emulsion is a Group II emulsion. If freezing has occurred, the recommended procedure is to thaw the emulsion completely before stirring. "Properly thawed" means that the emulsion has completely melted (at less than 66°C/150°F) to a liquid state before any agitation of the product is attempted. Once thawed and agitated, a sample should be taken from the container to observe its physical appearance as compared to the standard material.

It is recommended to take necessary precautions during transportation to prevent freezing.

Storage

The shelf-life of Clearco **FGSE35-2017 NPF** Food Grade Silicone Emulsion is approximately 12-months from date of manufacture. It is recommended to store containers at temperatures between 4°C to 27°C (40°F to 80°F).

**For More Info, Contact:
Clearco Products Co., Inc.**

15 York Road
Willow Grove, PA 19090
U.S.A.

Tel: (215) 366-7860

Fax: (215) 366-7862

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com