

SILICONE EMULSION 112 FD 2/SILFAX E4 FG

DESCRIPTION

Silicone Emulsion 112 FD 2/Silfax E4 FG is a fine particle size aqueous emulsion of a low viscosity food grade polydimethylsiloxane fluid. It can be used in the manufacture of food packaging materials as a defoamer, lubricant and as secondary direct food additive

TYPICAL PROPERTIES

Poly dimethyl siloxane content, %w/w	29-31
Emulsion Type	Nonionic
Appearance @ 20°C	Milky, white emulsion
pH (neat)	6.5 – 9.5
Solids Content, %w/w	31 - 33
Specific Gravity, g/ml @ 20°C	0.98 – 1.02
Flash Point (Open Cup, °C)	>200
Freezing Point, °C	0
Diluent	Water

APPLICATIONS

General applications for Silicone Emulsion 112 FD 2/Silfax E4 FG:

- Mould release in the plastic and rubber industries. Typical application levels of 1.0 – 4.0%.

General additive for

- Polish formulations
- Lubricants
- Pressure fluids
- Surface tension modifier
- Glass treatment
- Textile softener
- Leather conditioner
- Foundry release

Dilution of Silicone Emulsion 112 FD 2/Silfax E4 FG with water may require the additional preservative to counteract any increase in microbial activity. It is recommended that each user evaluate the diluted emulsion and its application to determine the amount if any of additional preservative.

PROCESSING GUIDELINES

Silicone Emulsion 112 FD 2/Silfax E4 FG can be used as received or may be diluted prior to use. The dosing level should be determined by laboratory evaluation or actual plant trials. A dosing level of about 10ppm based on silicone solids is a suggested starting point. The level can be adjusted in either direction to determine the minimum effective concentration for the system.

TECHNICAL BULLETIN

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STORAGE AND AVAILABILITY

This product has a shelf life of 12 months from the date of manufacture when stored at ambient temperature in sealed containers in a dry, well ventilated area out of direct sunlight. The product is available in 25 kg pails, 200 kg drums and 1000kg IBC.

FDA regulation for Silicone Emulsion 112 FD 2/Silfax E4 FG

Silicone Emulsion 112 FD 2/Silfax E4 FG may be used in applications subject to the following FDA regulations on food additives provided that the user complies with conditions of use detailed in the applicable regulations.

FDA 21CFR175.105	Adhesives
FDA 21CFR175.300	Resinous and polymeric coatings
FDA 21CFR176.170	Components of paper and paperboard in contact with aqueous and fatty foods
FDA 21CFR176.180	Components of paper and paperboard in contact with dry food
FDA 21CFR177.1200	Cellophane
FDA 21CFR177.2260	Filters, resin-bonded
FDA 21CFR177.2800	Textiles and textile fibers
FDA 21CFR178.3120	Animal glue

HEALTH AND SAFETY

In general silicone fluids are recognized as having a low order of toxicity. Eye contact will cause temporary irritation but flushing the eyes with water will minimize discomfort. All relevant information is provided within the Material Safety Data Sheet.