



RX-1345

Fatty Alcohol Modified Silicone Fluid

2025/01/10 Draft. PDS

Description

RS-100 is a fatty alcohol modified silicone oil that, when combined with a special emulsifier, can be emulsified for use as an emulsion. Unlike traditional dimethyl silicone oil release agents, this silicone oil contains fatty-based copolymers, which make it suitable for a wide range of processing needs. The key advantage of RS-100 is its superior resistance to high alkalinity, strong acids, and high temperatures, unmatched by traditional products.

Additionally, it does not affect secondary processing, bonding, printing, or coating.

Characteristics

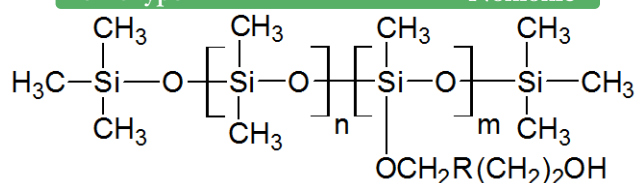
- Resistant to high alkalinity, strong acids, and high temperatures
- Once emulsified, can be directly dispersed in water
- Miscible with various organic solvents
- Excellent recoating properties; surfaces of rubber, plastic, or metal can be coated directly after release treatment without additional surface cleaning
- Excellent temperature resistance and glossiness

Properties

Appearance Milky white liquid

Active ingredient(%) 100.0%

Ionic type Nonionic



Safety

This document does not contain the safety information required for the product. Please read the safety data sheet for this product before use.

Storage & packaging

When stored in its originally sealed packaging at 5°C - 40°C, this product may be stored for up to 8 months from its manufacturing date. Comply with the storage instructions marked on the packaging. Once past this expiration date, TAI COUNTY CHEMICAL no longer guarantees that the product meets the sales specifications.

Product comes in 20KG HDPE green drums and 120kg HDPE blue drums loading 100KG(All breathable).

Applications

- Suitable for secondary processing such as bonding and printing
- Release agent for PU, rubber, and plastic materials
- Dispersion of powders and granules
- Improves leveling and enhances brightness in inks and paints
- Acts as a release agent on low melting point alloys and PU, offering excellent glossiness without needing additional surface treatment
- Provides softness, smoothness, water absorption, and anti-static effects for fibers and leather

Processing

- It is recommended to dilute RS-100 to a 45% solution. (Filter before packaging)

RS-100	:60	KG
RS-E	:24	KG
Water	:88	KG
Total	:172	KG

- Add RS-E emulsifier and RS-100 to the tank and mix with an emulsifier at medium speed (about 2000rpm~2500rpm) for approximately 10 minutes. Add water in 10 portions, stirring for 5 minutes each time; the viscosity will initially increase and then shift.
- Once completed, you will have a 45% release agent product.
- Before use, dilute and disperse to form a 5%~10% aqueous release agent.

(Depending on the actual conditions, you can adjust the usage amount.)

The information contained in this manual is given based on our current knowledge and good faith. It is indicative only and not binding, especially regarding the impact on third-party rights during product use. TAI COUNTY CHEMICAL ensures the products it sells conform to specifications. Only necessary preliminary tests can determine if a product is suitable for specific applications, and this information cannot replace such tests. Users are responsible for ensuring compliance with local legislation and obtaining necessary usage certificates and authorizations. Users are requested to check if they have the latest version of this document, and TAI COUNTY CHEMICAL is always ready to provide additional information to customers.

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