

SYL-OFF 2700 catalyst CAS112027-78-0 DOW

Product Overview

Syl-Off 2700 is a platinum-catalyzed silicone release agent used in pressure-sensitive laminate materials, label papers, cast papers, and industrial release papers. It is a clear, amber colored liquid with a mild odor. Syl-Off 2700 is non-flammable and has low vapor pressure. It is compatible with a variety of substrates, including paper, film, and metal.



Physical and chemical properties

CAS Number: 112027-78-0

Alias: Vinyl functional group silicone polymer dispersion, toluene solution

Molecular formula: $[\text{CH}_3(\text{CH}_2)_7\text{SiO}]_n$

Molecular weight: 10,000-20,000 g/mol

Specific gravity: 0.96-0.98 g/cm³

Refractive index: 1.49-1.51

Flash point: 100°F (38°C)

Boiling point: 275°F (135°C)

Vapor pressure: 0.01 mmHg at 25°C

Applications

The SCL-OFF 2700 is used to provide release surfaces on a variety of substrates, including paper, film, and metal. It is used in a variety of applications including:

- Pressure sensitive laminate
- Label paper
- Casting paper
- Industrial release paper

Advantages

The Syl-Off 2700 has a number of advantages, including:

- Excellent release performance
- Non-flammable

- Low vapor pressure
- Compatible with multiple substrates

Method of making

Syl-Off 2700 is made by dispersing a vinyl functional group silicone polymer in toluene. The polymer is first dissolved in toluene and then a platinum catalyst is added. The mixture is then stirred until the catalyst is evenly distributed.

Precautions for use

Scl-off 2700 is a hazardous material and should be handled with care. Be sure to follow all safety precautions when using this product. Some precautions to take include:

- Wear gloves and safety goggles when handling this product.
- Do not inhale the vapor.
- Keep away from heat sources and flames.
- Dispose of this product properly.

Additional information

The SCL-OFF 2700 is a versatile product that can be used in a variety of applications. Be sure to follow all safety precautions when using this product.

Shelf life:

Remain unopened for two years

Storage and Transportation:

Should be sealed, stored in a dry cool ventilated warehouse

Packing:

200KG/ barrel storage: It is recommended to store in a dry and cool area with proper ventilation. After the original packaging, please fasten the packaging cover as soon as possible to prevent moisture and other substances from mixing and affecting the product performance. Do not inhale dust and avoid contact between skin and mucous membrane. Smoking, eating and drinking are prohibited in the workplace. Shower and change after work. Store contaminated clothes separately and use them after washing. Practice good hygiene.

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