

Quality Certified TA2474-QC

PH-20

Phenyl-Modified Silicone Fluid

2025/01/09 Draft. PDS

#### **Description**

PH-20 is a phenyl-modified silicone that differs from traditional dimethyl silicone. It is widely used as a release agent for rubber and plastics, as well as in dyeing, oil additives, and for achieving flatness in inks and paints.

PH-20 is soluble in water and miscible with various organic solvents. It offers excellent re-coatability, allowing direct painting or coating of treated rubber, plastic, or metal surfaces without additional cleaning. Additionally, it has great temperature resistance and gloss, suitable for low melting point alloys and PU release applications without further surface treatment.

#### **Characteristics**

- Exceptional re-coatability compared to regular silicone oils
- Excellent heat resistance
- · Good lubricity
- Low surface tension
- Waterproof and hydrophobic properties
- Superior antioxidant properties
- Outstanding compatibility

## **Properties**

Appearance	Transparent to hazy liquid
Active ingredient(	%) 100.0%
pH(5%Solution,2	25°C) 7.0±1.0
Ionic type	Nonionic
Specific gravity	1.02

#### 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 20 \cdot 200 kg iron drums.

# **Applications**

- Release agents for PU, rubber, plastic, and other materials
- Dispersion of pigments, powders, and granules
- Enhancing brightness in inks and paints
- Softening, smoothing, and moisture absorption for fibers and leather, as well as static prevention effects

## **Processing**

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

$$\begin{array}{c} CH_3 \\ H_3C- \begin{subarray}{c} CH_3 \\ \hline \\ CH_3 \\ \hline \\ CH_3 \\ \hline \end{array} \begin{array}{c} CH_3 \\ \hline \\ Si-O \\ \hline \\ n \\ CH_3 \\ \hline \end{array} \begin{array}{c} CH_3 \\ \hline \\ Si-CH_3 \\ \hline \\ m \\ CH_3 \\ \hline \end{array} \begin{array}{c} CH_3 \\ \hline \\ CH_3 \\ \hline \\ m \\ CH_3 \\ \hline \end{array}$$

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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