



Carbon Fiber Release Agent-6044

User Manual

Product Overview

Carbon Fiber Release Agent-6044 is a release agent developed by Yunzhu New Materials for carbon fiber composites. Its key feature is the ability to provide smooth release even when the molding temperature fluctuates significantly, ensuring that the final product retains its original properties. The product is chemically stable, leaving no resin or residue, and delivers a smooth, high-quality surface.

It is widely used in applications involving Plastics, Thermosetting Resins, Polyurethane, Thermoplastic Resins, Carbon Fiber, EVA, and more. Additionally, it offers excellent lubrication between metal and non-metal surfaces.

Product Benefits

- **High Temperature Resistance:** Smooth release even with significant temperature fluctuations.
- **Efficient Release:** Good elongation and lubrication, leaving no resin or residue.
- **ECO-Friendly:** Non-toxic, does not decompose at high temperatures, prevents rust.
- **Residue-Free:** No residue, ensuring a flawless product surface.
- **High Stability:** Non-irritating and non-hazardous.
- **Mold Protection:** Provides heat insulation, extending mold lifespan.

Performance Specifications

Parameters	Description
Appearance	Off-white viscous liquid
Type	Oil-based Release Agent
Application	various composite molded products, including carbon fiber and polyurethane.
Ingredients	Dimethyl silicone oil, white mineral oil, etc.
pH	6--8
Flash Point	> 62°C
Flammability	Not classified as a flammable liquid
Explosiveness	Not classified as an explosive substance
Oxidizing	Not classified as an oxidizing substance
Dilution Ratio	Do not dilute
Storage	Flammable, Store in a cool, dry place, away from direct flames
Shelf Life	12 months
Stability	Stable under normal use and storage conditions

Application Method

Clean the Mold

Remove any residue, old coatings, and adhesives from the mold surface. Ensure no moisture or dampness remains, and verify the surface is smooth and dry.

Apply the Release Agent

Use a clean, dry cloth to apply the 8100 release agent evenly on the entire mold surface, ensuring a thin and uniform layer without excess.

Dry and Begin Production

The release agent can be used immediately, but it's recommended to wait 5-10 minutes for better release performance before starting production.

Safety Precautions

- **Respiratory Protection:** Wear a mask. In case of fire, wear a self-contained breathing apparatus.
 - **Eye Protection:** Wear goggles or a face shield if liquid splashing is possible.
 - **Body Protection:** Wear clean full-body work clothes.
 - **Hand Protection:** Wear protective gloves.
 - After handling, thoroughly wash the skin. Avoid contact with eyes. Do not damage packaging or containers. Keep containers sealed.
 - **Spill Emergency Response:** Isolate the leak area and restrict access. Cut off the fire source. Wear appropriate protective clothing, face shields, and use non-sparking tools. Cut off the leak source under safe conditions. Clean, collect, or dispose of waste safely, avoiding environmental contamination.
 - **Waste Disposal:** Dispose of leftover or non-recyclable products/containers through a licensed disposal company.
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