High-Gloss Water-Based Release Agent Lubekote 9165C for Hard-to-Release Silicone Fluorine Rubber Molding

Our Product Introduction

Basic Information

- Place of Origin: Shanghai, China
- Brand Name: Lubekote
- Certification: ISO 9001:2015
- Model Number: 9165C
- Minimum Order Quantity: 20 kg
- Price: USD 12-22 / kg
- Packaging Details: 20kg/barrel, 200kg/drum, or customized packaging available
- Delivery Time: 7-15 working days
- Payment Terms: T/T
- Supply Ability: 5000 kg per month

Product Specification

- Application: Silicone Rubber, Fluorosilicone Rubber, Fluoroelastomer (FKM) Molding, Difficult-to-release Compounds
- Dispersing Medium: Water-based
- Coating Type: Semi-permanent
- Appearance: White Emulsion
- Odor: Slight
- Surface Finish: High Gloss
- Dilution Ratio: 20-40:1 With Deionized Water
- Rubber Compatibility: VMQ, FVMQ, FKM, FFKM, HNBR
- Durability: Strong Multi-cycle Release Performance
- Shelf Life: 12 Months In Sealed Container
- Highlight: **silicone rubber release agent**, **fluorine rubber mold coating**, **high-gloss water-based demolding**

Our Product Introduction

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Product Description

High-Gloss Water-Based Release Agent Lubekote 9165C for Hard-to-Release Silicone Fluorine Rubber Molding

Lubekote 9165C is a premium water-based semi-permanent mold release agent specifically formulated to address the unique challenges of molding silicone rubber (VMQ), fluorosilicone rubber (FVMQ), and fluoroelastomer (FKM) compounds. These high-performance elastomers are notoriously difficult to release due to their inherent low surface energy and strong adhesion tendencies, making them among the most demanding materials in the rubber processing industry. Lubekote 9165C overcomes these challenges through an advanced crosslinking polymer system that creates an exceptionally durable, chemically resistant release barrier on mold surfaces. This specialized formulation provides reliable, consistent demolding even for complex part geometries and deep-draw mold configurations where conventional release agents consistently fail.

Recognizing that silicone and fluorine rubber parts are frequently used in high-value, performance-critical applications such as aerospace seals, medical device components, and semiconductor manufacturing equipment, Lubekote 9165C is engineered to deliver not only superior release performance but also a premium high-gloss surface finish that meets the exacting aesthetic standards of these demanding industries. The water-based formulation eliminates concerns about solvent contamination of sensitive rubber compounds while providing a safer, more sustainable production environment. Its strong multi-cycle durability ensures that manufacturers can achieve consistent quality across extended production runs without the frequent mold preparation interruptions that plague less capable release technologies.

Key Features

- **Specialized for Hard-to-Release Rubbers:** Uniquely formulated to overcome the extreme adhesion challenges posed by silicone (VMQ), fluorosilicone (FVMQ), and fluoroelastomer (FKM) compounds that defeat conventional mold release agents.
- **High-Gloss Premium Surface Finish:** Delivers an exceptional glossy surface quality on molded parts that meets the stringent aesthetic requirements of aerospace, medical, electronics, and automotive appearance-grade applications.
- **Strong Multi-Cycle Durability:** The chemically crosslinked polymer film withstands the aggressive chemical environment of fluorine-containing rubber compounds, maintaining release integrity over significantly more cycles than standard alternatives.
- **Water-Based Safe Formulation:** Solvent-free composition eliminates the risk of solvent-induced swelling or degradation of sensitive silicone and fluorine rubber compounds during the molding process.
- **Excellent Surface Gloss Retention:** Maintains consistent high-gloss appearance on molded parts throughout the entire production batch, eliminating the gloss variation issues common with less sophisticated release technologies.
- **Non-Transferring Clean Release:** Does not leave release agent residues on molded part surfaces, ensuring full compatibility with downstream processes including post-curing, bonding, and quality assurance testing.
- **Wide Processing Temperature Range:** Performs reliably across the broad temperature spectrum required for silicone and fluorine rubber processing, from low-temperature compression molding to high-temperature injection molding operations.

Technical Specifications

Parameter	Specification
Product Code	Lubekote 9165C
Classification	Chemical mold release agent
Dispersing Medium	Deionized water
Appearance	White emulsion
Odor	Slight, non-irritating
pH Value	6.5 - 7.5
Specific Gravity	0.98 - 1.03 g/cm³
Recommended Dilution Ratio	20:1 to 40:1 (release agent : deionized water)
Application Temperature	Mold surface above 100°C recommended
Surface Finish	High gloss
Shelf Life	12 months in original sealed container at 5-35°C

Applications

Lubekote 9165C is the release agent of choice for manufacturers working with the most challenging elastomer compounds in high-value application sectors. It is specifically engineered for silicone rubber (VMQ) molding applications including medical device components, baby care products, food-grade seals and gaskets, and electronic device keypads and protective covers. For fluorosilicone (FVMQ) and fluoroelastomer (FKM) processing, it excels in aerospace fuel system seals and O-rings, automotive turbocharger and exhaust system gaskets, chemical processing equipment diaphragms and seals, and semiconductor manufacturing wafer handling components. The product also delivers outstanding results with hydrogenated nitrile rubber (HNBR) compounds used in oil and gas downhole applications. Compatible with compression, transfer, and injection molding processes as well as both metal and non-metal mold materials.

Packaging & Quality Assurance

Lubekote 9165C is supplied in standard 20kg/barrel and 200kg/drum packaging options, with customized packaging solutions available for specific production requirements. Comprehensive quality assurance testing is performed on every production batch including multi-cycle release testing on VMQ, FVMQ, and FKM standard compounds, surface gloss measurement using calibrated gloss meters, coating adhesion and chemical resistance evaluation, and accelerated aging studies to validate multi-cycle durability claims. Our ISO 9001:2015 certified manufacturing facility ensures consistent, reliable product quality. Shanghai LoreChem Co., Ltd. provides dedicated technical support including application process optimization for specific mold configurations, compatibility verification with customer-specific rubber compounds, and ongoing performance monitoring to ensure sustained value delivery in demanding production environments.

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