

Rubber Gasket Flat Sealing Water-Based Mold Release Agent Multi-Cavity Production Solution

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: Lubekote
- Certification: ISO 9001:2015, RoHS
- Model Number: LK-9650-GS
- Minimum Order Quantity: 20 Liters
- Price: USD 9-15 / Liter
- Packaging Details: 20L HDPE drum, 200L steel drum, export palletized packaging
- Delivery Time: 5-7 working days for stock, 15-20 days for production
- Payment Terms: T/T, L/C, PayPal, Western Union
- Supply Ability: 50000 Liters per Month



Product Specification

- Product Type: Water-Based Mold Release Agent
- Target Rubber: NBR, EPDM, SBR, NR, CR
- Application: Gaskets, Flat Sealings, Multi-Cavity Molds
- Dilution Ratio: 1:10 To 1:20
- Release Cycles: 5-7 Cycles
- Appearance: White Emulsion
- VOC Content: <35 G/L
- Drying Time At 160°C: 20-30 Seconds
- Shelf Life: 12 Months
- Highlight: **rubber gasket flat sealing mold release, water-based mold release agent, multi-cavity production release solution**

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Water-Based Mold Release Agent for Rubber Gaskets and Flat Sealings

Product Introduction

Lubekote LK-9650-GS is a specialized water-based mold release agent designed for the high-volume production of rubber gaskets, flat seals, and sheet sealing products. Gasket manufacturing presents distinctive challenges: multi-cavity molds with high cavity counts (often 50-200 cavities per mold), thin cross-sections requiring precise dimensional control, and the need for consistent release performance across all cavities to maintain production efficiency. LK-9650-GS features a fast-evaporating water-based emulsion formula that delivers uniform coverage across large multi-cavity mold surfaces with minimal cycle time impact. The formulation is compatible with the broad range of rubber compounds used in gasket production including NBR for oil-resistant gaskets, EPDM for weather-resistant seals, SBR and NR for general-purpose gaskets, and CR for flame-retardant sealing applications.

Key Features & Benefits

Multi-Cavity Uniformity: Optimized atomization characteristics ensure consistent film deposition across all cavities in high-cavity-count molds, eliminating cavity-to-cavity release variation that causes partial sticking and production disruptions.

Fast Evaporation on Hot Molds: Water carrier flashes off in 20-30 seconds at 160°C mold temperature, minimizing production cycle extension compared to slower-drying water-based agents.

Thin Film Precision: Forms an ultra-thin release film that preserves fine gasket edge details, sealing bead geometries, and surface finish—critical for gasket sealing performance and dimensional specifications.

5-7 Cycle Semi-Permanent Performance: Reduces application frequency versus single-cycle spray release agents, increasing net production throughput by minimizing spray cycle interruptions.

Broad Compound Compatibility: Effective across the full range of gasket rubber compounds (NBR, EPDM, SBR, NR, CR) with a single product, simplifying chemical inventory and reducing operator confusion.

Cost-Effective at 1:20 Dilution: Maximum dilution ratio delivers economical per-part cost for competitive gasket manufacturing markets while maintaining reliable release performance.

Why Choose Us

Our 12+ year specialization in rubber auxiliaries has given us deep insight into the cost-sensitive, high-volume world of gasket manufacturing. We have supplied release agents to gasket manufacturers producing over 100 million parts annually across automotive, industrial, and construction sectors. Our ISO 9001:2015 certified facility ensures lot-to-lot consistency essential for stable gasket production processes. Technical support includes multi-cavity mold coverage analysis using UV tracer technology, application parameter optimization for specific spray systems, and dilution ratio fine-tuning for different compound families. We understand that gasket manufacturers compete on cost and reliability, and our products are engineered to deliver both. Free 5-liter production trial quantities available with application audit and performance verification support.

Technical Parameters

Parameter	Specification
Product Type	Water-Based Mold Release Agent
Target Rubber	NBR, EPDM, SBR, NR, CR
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Dilution Ratio	1:10 to 1:20
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Appearance	White Emulsion
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VOC Content	<35 g/L
Shelf Life	12 Months

Application Instructions

Mold Preparation: Clean mold thoroughly with alkaline cleaner. Pay special attention to thin gasket cavity edges and fine detail areas. Verify all cavities are clean and dry before application.

Dilution: Mix 1 part concentrate with 10-20 parts deionized water. For high-cavity-count molds (>100 cavities), use 1:15 ratio for optimal coverage. Adjust based on compound tackiness and mold complexity.

Application: Use an automatic spray system with programmable spray pattern for multi-cavity molds. For manual application, ensure systematic coverage pattern covering all cavities. Apply 2-3 coats with 20-30 second intervals.

Quality Check: After initial application, run 3-5 test cycles and verify complete release from all cavities before starting full production. Adjust application if any cavities show sticking tendency.

Frequently Asked Questions (FAQ)

Q: How do I ensure consistent release across all cavities in a 200-cavity mold?

A: We recommend using programmable automatic spray with verified coverage pattern. Our technical team can assist with spray system calibration using UV tracer technology to visualize and optimize coverage across all cavities before production.

Q: Does it work with silicone rubber gaskets?

A: LK-9650-GS is optimized for organic rubber compounds (NBR, EPDM, SBR, NR, CR). For silicone rubber gaskets, we recommend our dedicated silicone release agent LK-9700S-SI for optimal performance.

Q: What is the impact on gasket dimensional tolerances?

A: The ultra-thin film (<1 micron) has negligible impact on gasket dimensions. Gasket manufacturers using LK-9650-GS report dimensional variation within standard tolerance bands for ISO 3302 rubber products.

Q: Can it be used with automated demolding systems?

A: Yes, LK-9650-GS is fully compatible with robotic pick-and-place demolding systems. The consistent release force across cavities ensures reliable automated part removal without missed picks or double-sheet issues.

