

## Natural Rubber Anti-Vibration Mount Water-Based Mold Release Agent Low Build-Up Formula

Our Product Introduction

### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: Lubekote
- Certification: ISO 9001:2015, RoHS
- Model Number: LK-9660-AV
- Minimum Order Quantity: 20 Liters
- Price: USD 8-14 / 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: 60000 Liters per Month



### Product Specification

- Product Type: Water-Based Mold Release Agent
- Target Rubber: Natural Rubber (NR), SBR, BR Blends
- Application: Anti-Vibration Mounts, Engine Mounts, Suspension Bushings
- Dilution Ratio: 1:10 To 1:15 (Concentrate To Water)
- Release Cycles: 5-7 Cycles
- Appearance: White Emulsion
- PH Value: 7.0-8.0
- VOC Content: <40 G/L
- Shelf Life: 12 Months
- Highlight: **natural rubber mold release agent, water-based anti-vibration mount, low build-up release formula**

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## Water-Based Mold Release Agent for Natural Rubber Anti-Vibration Mounts

### Product Introduction

Lubekote LK-9660-AV is a purpose-engineered water-based mold release agent for natural rubber (NR) anti-vibration component manufacturing. Natural rubber remains the material of choice for automotive engine mounts, suspension bushings, and industrial vibration dampers due to its unparalleled dynamic fatigue resistance, low heat build-up, and excellent damping characteristics. However, NR's high green strength and surface tackiness during sulfur vulcanization create significant demolding challenges, especially in large, complex geometries typical of anti-vibration components. LK-9660-AV addresses these challenges through a carefully balanced emulsion system that provides reliable release without the progressive mold build-up that plagues conventional agents. The low build-up formulation is critical for anti-vibration mounts, where mold cavity dimensional accuracy directly affects part performance characteristics including spring rate and damping coefficient.

### Key Features & Benefits

**Low Build-Up Formulation:** Proprietary self-limiting film technology prevents progressive residue accumulation in mold cavities, maintaining critical dimensional tolerances for anti-vibration components over 50-100 production cycles between cleaning intervals.

**NR-Specific Surface Chemistry:** Engineered for natural rubber's unique surface energy and tack characteristics during sulfur vulcanization, providing reliable release where generic agents struggle with NR's tenacious adhesion.

**5-7 Reliable Release Cycles:** Semi-permanent performance reduces reapplication frequency, increasing production throughput by minimizing spray cycle interruptions on multi-cavity anti-vibration mount molds.

**Non-Staining Formula:** Leaves no discoloration or residue on finished NR parts, maintaining aesthetic quality for visible automotive components while ensuring full bonding compatibility for metal-rubber bonded mounts.

**Water-Based, Worker-Safe:** VOC content below 40 g/L with no hazardous solvents, providing a safe working environment for operators in high-volume anti-vibration component factories.

**Compatible with Bonded Assemblies:** Non-transfer film ensures metal-rubber bonding integrity is maintained for mounts with bonded metal inserts, a critical requirement in anti-vibration manufacturing.

### Why Choose Us

With 12+ years of dedicated rubber processing auxiliaries experience and 10 patents, we understand the unique requirements of anti-vibration component manufacturing. Our R&D team has collaborated with leading automotive anti-vibration system suppliers to develop formulations that meet the demanding standards of OEM specifications. Our ISO 9001:2015 certified quality system includes dynamic mechanical analysis (DMA) to verify zero impact on NR compound properties, demolding force measurement for batch consistency, and mold fouling simulation tests. We have supplied over 100 tons of anti-vibration specific release agents to tier-1 automotive suppliers across Asia and Europe. Technical support includes on-site application optimization, mold preparation guidance, and customized dilution ratio recommendations based on specific mold geometries and NR compound formulations. Free 5-liter trial samples with comprehensive performance evaluation support are available.

### Technical Parameters

Parameter	Specification
Product Type	Water-Based Mold Release Agent
Target Rubber	Natural Rubber (NR), NR/SBR, NR/BR Blends
Application	Anti-Vibration Mounts, Engine Mounts, Bushings
Dilution Ratio	1:10 to 1:15
Release Cycles per Application	5-7 Cycles
Appearance	White Emulsion
pH Value	7.0-8.0
VOC Content	<40 g/L
Shelf Life	12 Months

### Application Instructions

**Mold Preparation:** Clean mold surfaces thoroughly with alkaline mold cleaner. Remove all rubber residues, previous release agent, and metal-rubber bonding agent overspray. Dry completely before applying release agent.

**Dilution:** Mix 1 part concentrate with 10-15 parts deionized water. For large, complex anti-vibration mount molds, use the lower dilution (1:10) for initial application and higher dilution (1:15) for touch-up coats.

**Application:** Spray onto preheated mold (140-170°C) using air spray gun at 2-3 bar. Apply 2-3 uniform coats, allowing 30 seconds between coats for water evaporation.

**Curing:** Allow 2-3 minutes for film thermal cross-linking before introducing NR compound.

### Frequently Asked Questions (FAQ)

**Q: Does LK-9660-AV affect the dynamic properties of NR anti-vibration mounts?**

A: No. The non-transfer formulation ensures no release agent residue remains on the NR part surface, so dynamic properties including spring rate (K-value), damping coefficient (C-value), and fatigue life are completely unaffected.

**Q: Is it suitable for metal-rubber bonded anti-vibration mounts?**

A: Yes. LK-9660-AV is specifically designed for bonded applications. Apply the release agent only to mold surfaces, avoiding metal insert areas. The release film will not migrate to bonding surfaces during molding.

**Q: Can it be used with SBR or BR compounds?**

A: Yes, LK-9660-AV is effective with SBR (Styrene Butadiene Rubber) and BR (Butadiene Rubber) blends commonly used in anti-vibration applications, though the optimal dilution ratio may vary by compound.

**Q: What is the recommended storage temperature?**

A: Store between 5-35°C. Protect from freezing. If the product has been exposed to low temperatures, allow it to return to room temperature and agitate thoroughly before use.

