November, 2025

Dear Valued Partners,

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Subject: Release of New Product

Polyester Buff

We are pleased to announce the launch of our newly developed polishing tool, the “POLY BUFF,” available from Monday, December 1, 2025.
This next-generation polishing tool is designed as a high-performance alternative to felt buffs and features an ADI-free composition, containing no animal-derived ingredients.
The Polyester Buff is made from synthetic fibers that combine polyester with a microporous water-based resin, creating a uniform polishing layer in which the fibers and resin are integrally bonded. This structure provides excellent water resistance and absorbency, allowing the buff to retain polishing compounds effectively and distribute abrasive particles evenly, making it ideal for wet polishing applications.
In addition, it offers superior heat resistance and thermal dissipation, ensuring stable performance even under prolonged heat exposure.
Two types are available to suit different polishing needs: a Soft Type and a Hard Type.
The Polyester Buff is suitable for a wide range of applications, including mold and precision polishing, as well as use in the semiconductor, medical, food, and cosmetics industries.
It is also a safe and reliable choice for environments where animal-derived materials must be avoided.

ADI-FREE
WOOL-FREE

＜Release Date＞

Monday, December 1, 2025

【Contact Us】

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— Polyester Buff —

■ Product Overview

A New Option in Polishing Tools — Introducing the “Polyester Buff”
The Polyester Buff, a next-generation chemical fiber buff, offers a superior alternative to traditional felt while adopting an ADI-free design with no animal-derived components.
Its heat-resistant fibers with excellent thermal dissipation reduce frictional heat, providing stable and consistent polishing performance. The Polyester Buff is also ideal for wet processing and maintains consistent results even during extended use.
With excellent compatibility with polishing compounds, it delivers a natural gloss and uniform finish across a variety of surfaces.
Ideal for mold polishing and precision finishing, it is also suitable for applications in semiconductor, medical, food, and cosmetics industries, providing safe and reliable performance even in environments where animal-derived materials are restricted.

■ Product Characteristics

- **ADI-Free (No Animal-Derived Components)**
  Safe for use in medical, food, and cosmetic applications.
  (For more details, see the attached document.)
- **Excellent Heat Resistance and Thermal Dissipation for Stable Polishing Performance**
  The unique fiber structure suppresses heat buildup from friction, minimizing performance changes and allowing consistent polishing even during extended use.
- **Ideal for Wet Polishing**
  The water-repellent and absorbent fiber structure effectively retains polishing compound and delivers uniform particle distribution. Maintains stable performance even in environments using coolants or water.

Comparison of Conventional Wool Buff and Polyester Buff

	Wool Buff	Polyester Buff
Fiber Material	Natural animal fiber (wool)	Synthetic polyester
Animal-Derived Components	Yes	No (ADI-Free)
Heat Resistance	Wool has high insulation, trapping heat internally. Begins to burn/melt around 120℃.	Porous and breathable structure allows heat to dissipate easily. Melting point ~135℃, less affected by heat.
Water Resistance	Short-term exposure to water is acceptable, but prolonged immersion causes deterioration.	Resistant to water, with negligible performance changes. Stable even in wet polishing or coolant environments.
Polishing Compound Retention	Compound can escape due to fiber wear or breakage.	The fibers wear slowly, retaining compounds on the surface for consistent polishing over extended use.

■ Product Lineup / Package Quantity: 5 pieces per Pack

Product CD	Hardness	Size (mm)	Max. Allowable Rotation Speed	
GA5001	Soft	ϕ4 × T7mm Shank Dia. ϕ3.0 TL42mm	25,000 r.p.m.	
GA5002		ϕ6 × T15mm Shank Dia. ϕ3.0 TL 50mm	25,000 r.p.m.	
GA5003		ϕ8 × T15mm Shank Dia. ϕ3.0 TL 50mm	30,000 r.p.m.	
GA5004		ϕ10 × T20mm Shank Dia. ϕ3.0 TL 50mm	30,000 r.p.m.	
GA5011	Hard	ϕ4 × T7mm Shank Dia. ϕ3.0 TL 42mm	25,000 r.p.m.	
GA5012		ϕ6 × T15mm Shank Dia. ϕ3.0 TL 50mm	25,000 r.p.m.	
GA5013		ϕ8 × T15mm Shank Dia. ϕ3.0 TL 50mm	30,000 r.p.m.	
GA5014		ϕ10 × T20mm Shank Dia. ϕ3.0 TL 50mm	30,000 r.p.m.	

About ADI-Free (Animal Derived Ingredients Free)

■ What is ADI-Free?

“ADI-Free (Animal Derived Ingredients Free)” indicates that no animal-derived substances are used during the manufacturing process of the product.
In recent years, ADI-free specifications have become increasingly important in fields such as medical, food, cosmetics, and biotechnology, due to growing attention to safety, hygiene, and ethical considerations.

■ Why ADI-Free Matters

Animal-derived materials may present various risks and concerns, such as:

- Infection Risks: Animal ingredients can potentially carry infectious agents such as BSE (bovine spongiform encephalopathy) or prions. For products used in or around the human body, avoiding such risks is essential.
- Allergy and Hygiene Concerns: Animal proteins and fats can cause allergic reactions or spoilage. In the medical and food industries especially, maintaining cleanliness and hygiene is critical.
- Ethical and Environmental Considerations: Avoiding animal-derived ingredients also supports environmental protection and animal welfare (animal ethics).

■ Key Fields Where ADI-Free Is Required

- Medical and Pharmaceutical Industries: Essential for devices and materials used inside the body to prevent infection and rejection.
- Food and Cosmetics Industries: Growing trend toward avoiding animal-based ingredients for allergy prevention and hygiene management.
- Semiconductor and Precision Equipment Fields: Suitable for use in cleanroom environments and helps minimize the risk of organic contamination.
- Global Compliance: ADI-free standards are increasingly recognized as a benchmark for safety and reliability, alongside RoHS and REACH.

■ Features of ADI-Free Products

- Safe for use in medical, food, and cosmetic applications thanks to the absence of animal-derived ingredients.
- Resistant to deterioration and spoilage, ensuring hygienic long-term use.
- Designed for cleanroom and other controlled environments.
- Compliant with international safety and hygiene standards.

■ The Significance of ADI-Free in Polyester Buff

Polyester Buff is a polishing tool made of a synthetic fiber structure combining polyester and water-based resin, completely free of animal-derived substances.
While offering polishing performance comparable to wool felt, it provides superior hygiene and reliability.
As a next-generation felt alternative, it can be used safely even in fields where the use of wool has been restricted, such as medical equipment and food processing machinery.