Single-Pair Foil-Sealed Anti-Slip & 3D Embossed Hydrogel Eye & Lip Patches — Engineering TDS

6g–8g/Pair Vegan Seaweed Carrageenan + Konjac Matrix · ≥18 Pa Yield Stress · Rigid PET Tray + N2 Foil Sachet

Verified Corporate & GMP Baseline:
• **Operating Entity:** Guangzhou Yanmei Bio-Technology Co., Ltd. (Tax / Credit ID: `91440106050647021B`)
• **Registered Hub:** Room 801-A, Bldg 8, Plot 5, No. 12 Lvgang 5th St, Huadu Airport Zone, Guangzhou, China
• **Group GMP Credentials:** Parent Co. Fujian Yanse Cosmetics Co., Ltd. holds Bureau Veritas ISO 22716 (`CNSH25778319-IS022716`), US FDA Cosmetic GMP (`CNSH25778319-USFDA`) & License `闽妆20250005`
• **Sample SLA:** Stock Benchmark Kit in **48 Hours** · Custom Lab Counter-Sample in **7–10 Days** (200% PO Rebate)



1. Multi-Layer Barrier & Unit-Dose Process Architecture

LAYER 1	LAYER 2	LAYER 3	LAYER 4	LAYER 5
Matte PET Outer Print Layer	Aluminum Foil Oxygen/Light Barrier	Rigid Thermoformed PET Tray	1.10mm Cross-Linked Hydrogel	Nitrogen-Flushed Serum Cushion

2. Standard Stock-Tooling SKU Matrix, Agile MOQs & Export Carton CBM

Format / Variant	Barrier & Formulation Specification	Agile Pilot MOQ	Lead Time	Export Logistics
Classic Clear / Gold / Rose	6.5g/pair Smooth Hydrogel in PET Tray + Foil Sachet	**3,000 Pairs Trial MOQ**	14–16 Days	14 Cartons / 0.52 CBM per 10k
Starlight Glitter / Pearl	7.0g/pair Cosmetic Biodegradable Shimmer Hydrogel	**5,000 Pairs**	15–18 Days	14 Cartons / 0.52 CBM per 10k
2-Tone Chromo Logo Print	7.0g/pair Precision Ink-Free Chromo Pattern Patch	**10,000 Pairs**	18–20 Days	15 Cartons / 0.54 CBM per 10k
3D Embossed Brand Monogram	7.5g/pair Custom CNC Textured Relief Eye/Lip Patch	**30,000 Pairs**	20–24 Days	15 Cartons / 0.55 CBM per 10k

3. Quantitative Laboratory Quality Control & Transit Validation Gates

Inspection Gate	Test Method / Equipment	Acceptance Specification	Commercial Benefit
Facial Anti-Slip Yield Stress	Rotational Viscometer / Vertical Slide	`≥ 18 Pa Yield Stress`	< 1.5 mm Vertical Slip in 20 Min

Inspection Gate	Test Method / Equipment	Acceptance Specification	Commercial Benefit
Syneresis (Water Weeping)	45°C / 75% RH 90-Day Stability	`< 1.2% Free Liquid Separation`	Cohesive Elastic Gel Integrity
Patch Thickness Tolerance	Laser Micrometer Across Web	`1.10 ± 0.08 mm`	Uniform Cooling & Serum Release
Pouch Heat-Seal Strength	ASTM F88 Tensile Seal Test	`≥ 25 N / 15mm`	Zero Transit Burst or Drying

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