

ALGACOL™ | Alga Manufacturing (Shandong) Co., Ltd.

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Refined Kappa & Iota Carrageenan (E407) Technical Dossier: TSXL002, TKA001–003 & TKI001

Executive Technical Summary: Batch COA & TDS benchmark parameters: Gel Strength $\geq 1000\text{--}1800$ g/cm² (1.5% gel, 0.2% KCl at 20C), Viscosity ≥ 5 mPa.s, Acid-Insoluble Ash $\leq 1.0\%$, Pb ≤ 2.0 ppm, ETO-Free (< 0.01 ppm), Patent CN102174118B.

SKU Code	Category / E-No.	Key Laboratory Specifications	2026 FOB Qingdao
TSXL002	Refined Carrageenan E407	Custom High Gel, Moisture $\leq 12\%$, Pb ≤ 2.0 ppm, 120-200 Mesh	\$7.60 - \$8.90/kg
TKA001 / 002	Refined Kappa E407	Gel Strength ≥ 1500 / ≥ 1200 g/cm ² , Acid-Insoluble $\leq 1.0\%$	\$8.10 - \$9.80/kg
TKI001	Refined Iota E407	Patent CN102174118B Elastic Freeze-Thaw Gel, Zero Syneresis	\$8.80 - \$10.50/kg
TKB001	Semi-Refined PES E407a	Meat & 121C Retort Pet Food Grade, 1:50 Water Binding	\$6.30 - \$7.40/kg
THA001 / 002	Sodium Alginate E401	Liquid-Phase Viscosity ≥ 900 / 400-700 mPa.s, Insoluble $\leq 0.6\%$	\$7.50 - \$9.60/kg
TPA001	Potassium Alginate E402	Dental Impression & Spa Mask Grade, K ₂ O 15.0-22.0%	\$11.50 - \$15.80/kg
PGA HV/MV/LV	PGA E405 (Acid Stable)	Esterification $\geq 40\%$, pH 3.4-4.1, Yogurt & Beer Foam Grade	\$12.50 - \$16.50/kg
TQA001 / TQB001	Agar-Agar E406	Gel Strength ≥ 900 g/cm ² & Low-Temp Instant Agar	\$9.90 - \$14.50/kg
TSH-001 / 002	Meat Compound System	Brine Injection (Gel ≥ 500) & Bowl Chopping (Gel ≥ 400)	\$6.50 - \$8.40/kg
TSZ-001 to 008	Vegan Gummy & Jelly	$>60\text{C}$ Heat-Stable Vegan Gummy (TSZ-007) & Crystal Jelly (TSZ-002)	\$6.80 - \$9.60/kg
TSR-001 to 006	Dairy, Ice Cream & Bakery	UHT Cocoa Suspension (0.02% Dosage), Frozen Dough & Soft Serve	\$6.70 - \$14.20/kg

Commercial & Logistics Terms (Qingdao Port, Shandong, China):

- **Mixed 20' FCL Consolidation:** Combine any of our 37 SKUs (from 500 kg/SKU) into a 18–20 MT 20' FCL.

- **Free R&D Lab Samples:** 500g counter-samples dispatched within 48 hours via DHL/FedEx with batch COA, TDS, MSDS, Halal & Kosher certificates.
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