

FLAVOR CAPSULE

ONE-STOP SERVICE



Shandong Towin New Materials Co., Ltd.



COMPANY PROFILE

ABOUT US

TOWIN

Shandong Towin New Materials Co., Ltd. is a wholly owned subsidiary of Tuwang Technology Group. We develop, manufacture and customize flavor capsules, functional granules and related materials for tobacco products, providing OEM/ODM solutions to tobacco companies and next-generation tobacco brands.

In-house R&D, production, testing and warehousing support consistent flavor, stable quality and controlled compliance.



GROUP MILESTONES

2014

Started in intelligent manufacturing equipment

2020

Crystal Capsule Innovation Institute established

2022

Built a Class 100,000 GMP-standard workshop

2024

Expanded flavor-capsule business overseas

2025

FUT

Tuwang Group established; expanded global operations

URE

Growing with global partners

Together, Towin!

Fully Integrated

R&D · Production · Testing · Warehousing

OEM / ODM

Custom R&D & Scalable Supply

Proven Capacity. Reliable Delivery.

In-house equipment, scalable output and R&D support

25000 m²

m² Campus

33.6M

Capsules / Day

50+

High-Speed Lines

4 Core Technologies

130+ Equipment Models

2,000+ Formulations

48+ Supply Partners

WHY TUWANG NEW MATERIALS?

Consistent Quality



Equipment · Process · Production

Reliable Delivery



In-house maintenance, fast response

Capacity



Capacity for large and urgent orders

R&D Support



Faster development and scale-up

Two coordinated sites · In-house production validation · Process traceability

Four Core Technologies

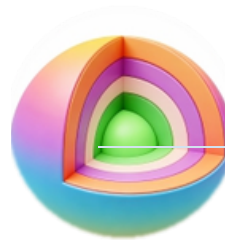
Release, forming, structure and flexible production



Dual-CoreBeadX

**Dual-Core
Capsule
Technology**

One capsule, two flavor layers



MicroPillX

**Micro-Pellet
Controlled-Release
Technology**

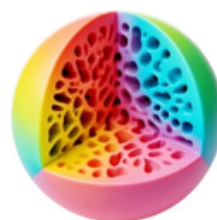
Adjustable release profile



BlastBeadX

**Smart Capsule
Drop-Forming
Technology**

High-speed precision forming



Smart CrystalX

**Smart Crystal
Drop-Forming
Technology**

Flexible production changeover

Capsules · Micro-pellets · Filled capsules



FLAVOR PORTFOLIO

Product Selection & Flavor Profiles

Fruit, mint and blends; customizable strength, aroma and cooling



Mint Flavors & Specifications

Size options and sensory profiles at a glance.



Diameter	2.8–5.0 mm
Flavors	150+
Custom	Available
Colors	Multiple
Firmness	Soft–firm
Packaging	PE / foil / foam / carton

STANDARD SIZES

Standard Sizes

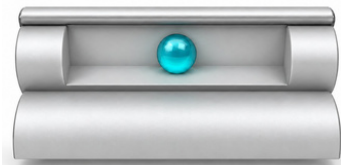
Diameter (mm)	Unit Weight (mg)	Capsules per kg	Crush Force	Application
2.8	12.5 ±1	80,000 ± 200	1.6	Ultra-slim
3.15	18 ±2	55,500 ± 200	1.8	Slim
3.4	22 ±1	45,400 ± 200	1.8	Regular

Mint Collection

MINT COLLECTION

Mint

MINT



Mint	● ● ● ● ● ● ● ● ● ●	4
Aroma	● ● ● ● ● ● ● ● ● ●	7
Cool	● ● ● ● ● ● ● ● ● ●	6

Black Ice

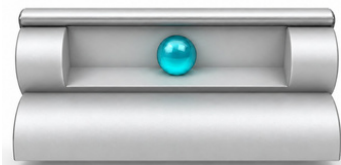
BLACK ICE



Mint	● ● ● ● ● ● ● ● ● ●	6
Aroma	● ● ● ● ● ● ● ● ● ●	7
Cool	● ● ● ● ● ● ● ● ● ●	7

Intense Mint

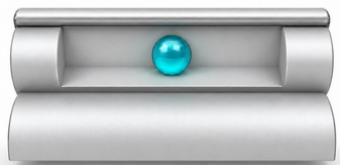
INTENSE MINT



Mint	● ● ● ● ● ● ● ● ● ●	7
Aroma	● ● ● ● ● ● ● ● ● ●	10
Cool	● ● ● ● ● ● ● ● ● ●	7

Ice Mint

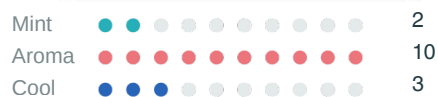
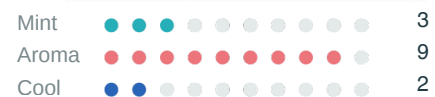
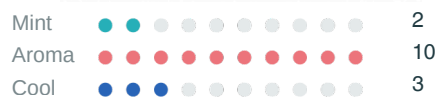
ICE MINT



Mint	● ● ● ● ● ● ● ● ● ●	10
Aroma	● ● ● ● ● ● ● ● ● ●	10
Cool	● ● ● ● ● ● ● ● ● ●	10



Eight fruit profiles with varied mint and cooling.



Product Development Team

Tailored formulas and collaborative product innovation



Crystal Capsule Innovation Institute
R&D, trials, validation and scale-up.

Collaborative R&D

01

Brief



02

Formulation



03

Validation



04

Scale-Up



MOQ 50kg

Samples in 3–7 Days

Bulk: scheduled to order

GMP Class 100,000 Cleanroom



01 — Capsule Forming



02 / Drying



03 / Gel Preparation



04 / AI Sorting

Factory & Warehousing

Materials, packing, finished goods and dispatch



01 / Raw Materials



02 / Finished Goods

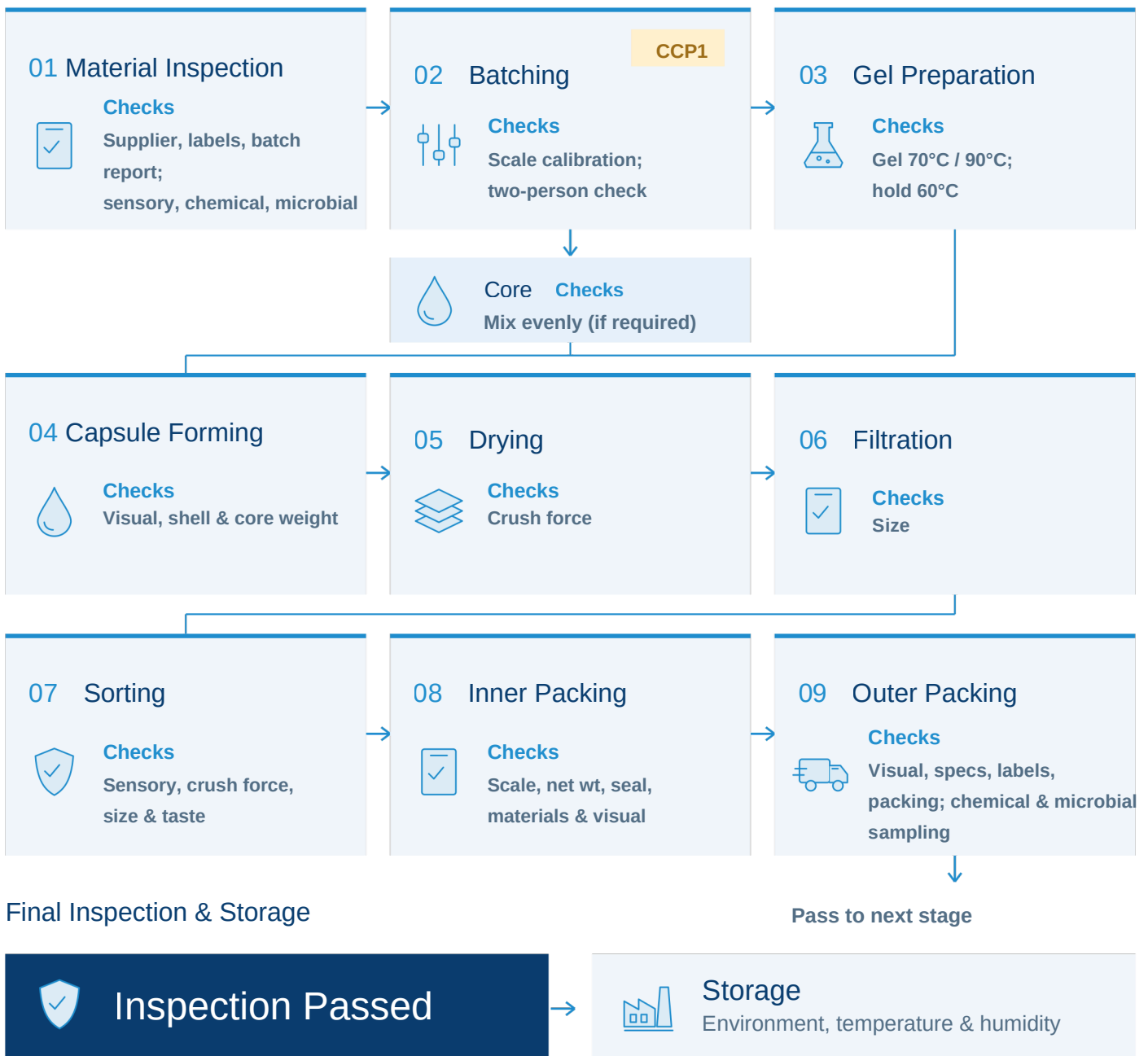
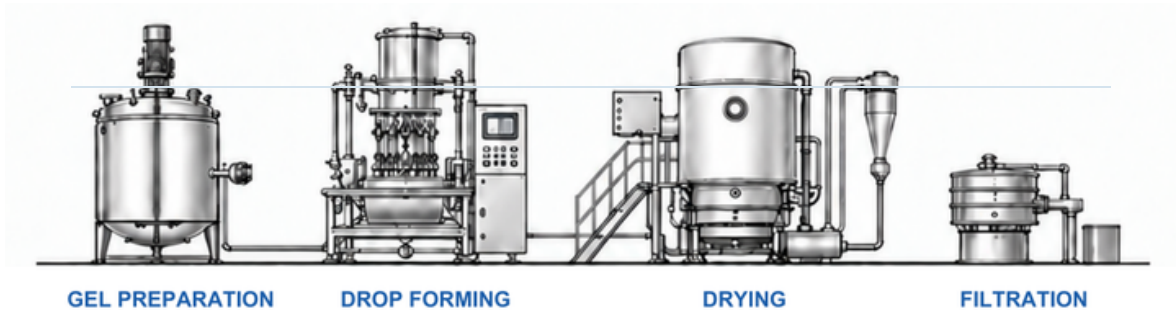


03 / Packaging



04 / Dispatch

Capsule Process & Quality Control



Quality Documents

Multi-stage checks from materials to finished capsules

PRODUCT TESTING

Rigorous Testing Quality Assured

Quality Control from Raw Materials to Finished Capsules

Our comprehensive quality control system combines professional testing equipment and strict standards to ensure the quality of every capsule.

-  **Strict Standards**
End-to-End Quality Control
-  **Advanced Equipment**
Precise, Efficient Testing
-  **Safety & Reliability**
Meets Industry Standards
-  **Full Traceability**
Tracked at Every Stage



TESTING PROCESS

Quality Control at Every Stage

Multiple checks ensure the safety, stability and consistency of every capsule.

-  **01 Precision Weighing**
High-precision balances ensure accurate raw material ratios.
-  **02 Physicochemical Testing**
Key checks for composition, solubility and stability.
-  **03 Visual Inspection**
Strict checks of appearance, color and integrity.
-  **04 Microbial Testing**
Microbial checks help safeguard product safety.
-  **05 Moisture Testing**
Precise moisture control ensures consistent quality.
-  **06 Final Inspection**
Multiple checks ensure every batch meets standards.

 **International Standards**
Strict adherence to industry and international quality standards.

 **Advanced Testing Equipment**
High-precision instruments for accurate results.

 **Expert Technical Team**
Experienced specialists overseeing every stage.



Cigarette Flavor Capsules
Better Quality Starts with Testing.

REPORT

Release Test Report
Batch-specific results

TDS

Technical Data Sheet
Specs & applications

MSDS

Safety Data Sheet
Storage & handling

Certifications & Registration

Scope, holder and validity per original documents



ISO 9001:2015
Quality Management System



ISO 22000:2018
Food Safety Management System



HACCP
Hazard Analysis & Critical Control Points



FDA REGISTRATION
U.S. FDA Registration Record

In-House Equipment & Patents

Self-developed core equipment for ongoing improvement and maintenance

Equipment Independence

In-house R&D · Manufacturing · Maintenance

130+

Core Models

Equipment Patent Portfolio



In-House R&D

Process Integration

In-House Maintenance

Rapid Iteration

Stable Production

Custom Orders & Delivery

MOQ

50 kg

Bulk Lead Time

Sample Lead Time

3-7 Days

Scheduled to suit project requirements

Our dedicated team works with you on product requirements, sample approval, specifications, packaging and delivery.

Contact

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