



BOTTLED E-LIQUID OEM SOLUTION

NORTH AMERICAN

2023 CATALOG



CONTENTS

01 ABOUT US	02
02 TECHNOLOGY	04
• E-LIQUID & COIL BIDIRECTIONAL COMPATIBILITY TECHNOLOGY	04
• NICOTINE TECHNOLOGY	05
• FLAVOR STABILIZATION TECHNOLOGY	06
• ADDITIVE APPLICATION TECHNOLOGY	07
03 R&D	08
• FLAVORIST TEAM	08
• INTELLIGENT FORMULA SYSTEM	09
• US R&D CENTER	10
• HRI	12
04 SOLUTIONS	14
• FLAVORS	15
• SERVICE PROCESS	22
• QUALITY MANAGEMENT	24
• PACKAGING PROPOSALS	28
• PRODUCTION & DELIVERY	30

ABOUT US

Hangsen, established in 2009, is a world leading e-liquid manufacturer. We are dedicated to providing a comprehensive e-liquid supply chain solution for global customers, including design, research and development, production, compliance and other aspects of the service.

For the past 14 years, we've continuously pursued excellence. As vaping industry pioneers, we were among the first to introduce PG/VG e-liquids. Our e-liquids harmoniously blend the artistry of cherished flavors passed down through generations with the latest advancements in technical and fundamental scientific research.

30,000m²

AREA COVERS

300tons

MONTHLY CAPACITY OF
BULK E-LIQUID

8million

MONTHLY CAPACITY
OF BOTTLED E-LIQUID

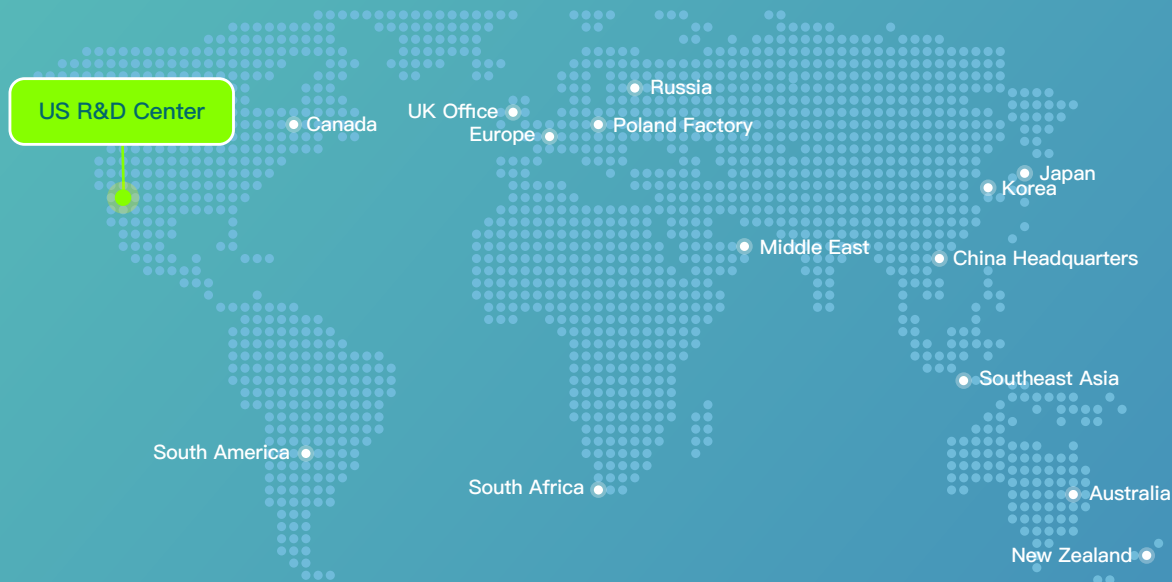
780million

BOTTLED E-LIQUID HAS
BEEN PRODUCED



80+

Business covers 80+
countries and regions



HANGSEN E-LIQUID

3 CORE TECHNOLOGIES



ADDITIVE APPLICATION
TECHNOLOGY

NICOTINE TECHNOLOGY

E-LIQUID & COIL BIDIRECTIONAL
COMPATIBILITY TECHNOLOGY

THROAT HIT
CONTROL TECHNOLOGY

NICOTINE SATISFACTION
ENHANCEMENT TECHNOLOGY



NICOTINE
TECHNOLOGY

NICOTINE & FLAVORINGS
COMPATIBILITY TECHNOLOGY

H-NICOTINE SALTS™
NON-BENZOIC ACID
NICOTINE SALT SOLUTIONS
ORIGINAL SERIES OF NICOTINE SALTS
WITH DIVERSE CHARACTERISTICS

E-LIQUID & DEVICE BIDIRECTIONAL COMPATIBILITY TECHNOLOGY

OPTIMIZE
TEXTURE

AVOID
NEGATIVE
RISKS

OPTIMIZE
FLAVOR
RESOLUTION

PREVENT
LEAKAGE

OPTIMIZE
FLAVOR
STABILITY

PREVENT
COIL
GUNKING

HEATING
WIRE
STRUCTURE

COIL
MATERIAL

HEATING
CURVE

ADDITIVE

FLAVORINGS

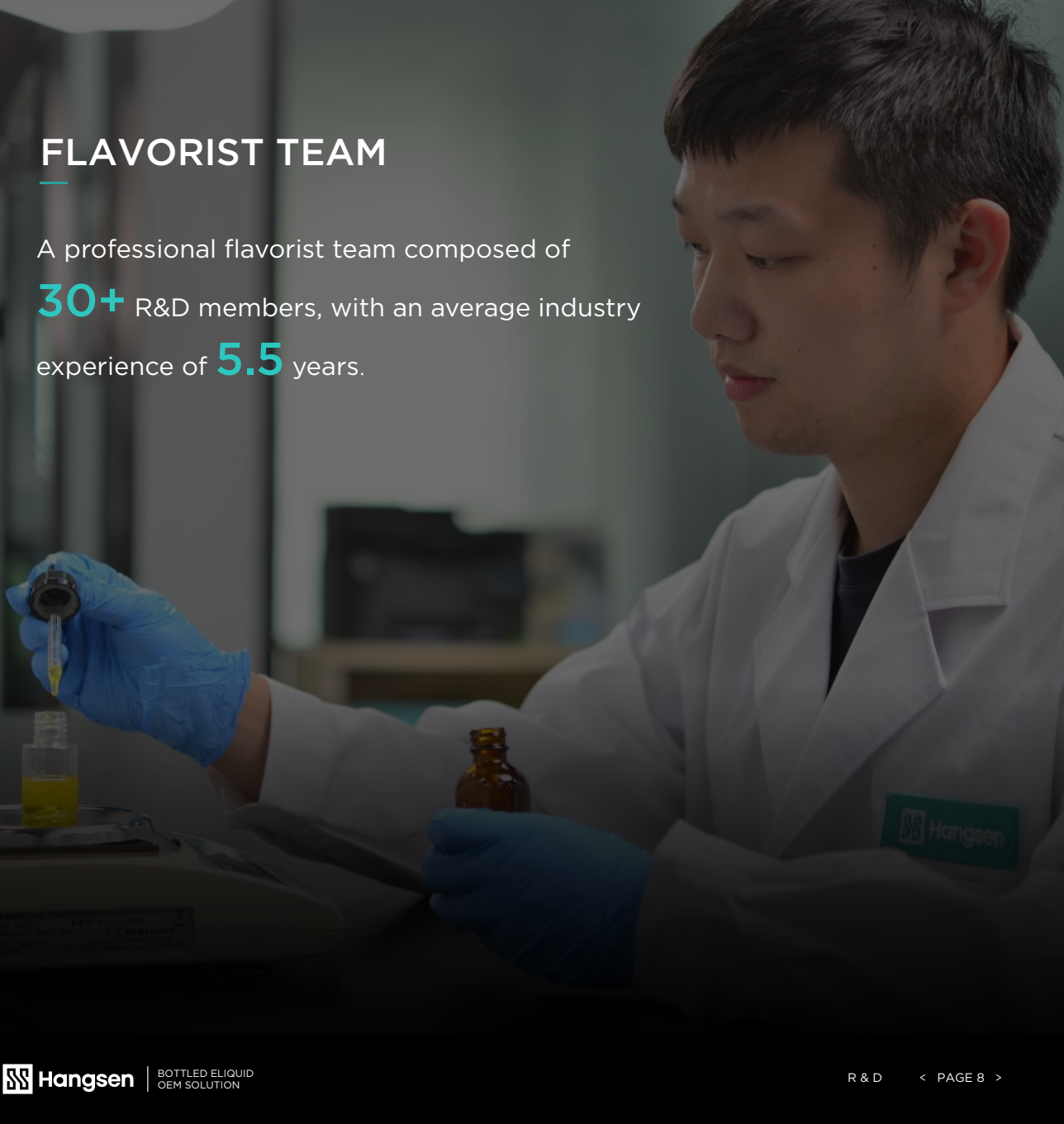
PG&VG



Hangsen has a leading advantage in the application of additives, especially in the exclusive formulation of our latest sweetener, which is far ahead of other competitors in terms of taste, sweetness, the avoidance of coil gunk, coordination, stability, and controllability.

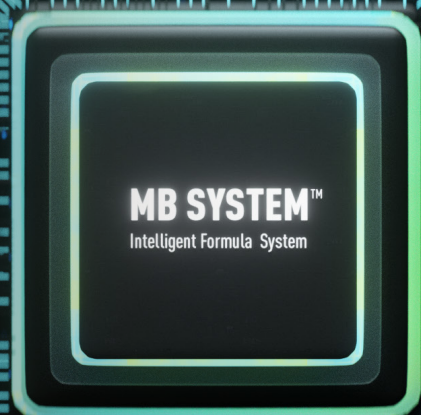
FLAVORIST TEAM

A professional flavorist team composed of
30+ R&D members, with an average industry
experience of **5.5** years.



INTELLIGENT FORMULA SYSTEM

- COMPUTER-AIDED E-LIQUID DESIGN
- TRACEABILITY SYSTEM
- COMPLIANCE SCREENING OF INGREDIENTS
- FLAVOR TREND PREDICTION
- RISK CONTROL



US R&D CENTER

In 2023, Hangsen established a R&D Center in California, equipped with highly experienced senior flavorists. We are dedicated to providing convenient and customized e-liquid flavor development services for our valued global clients.



FLAVOR DEVELOPMENT



DEVICE ADAPTATION



TECHNICAL SUPPORT



BUSINESS INTERFACING

The US R&D Service Center greatly saves valuable time for local customers. The service center significantly improves the efficiency of brand company product launch, and customers can visit our R&D center established in California to quickly communicate, provide feedback, and handle issues during the flavor development process on-site.

CUSTOMER-CENTERED

SERVICE PHILOSOPHY

Hangsen US R&D Center is equipped with advanced equipment and a professional team, dedicated to providing highly personalized and customized services, more accurately capturing and meeting various unique flavor requirements.

TIME-SAVING

COLLABORATION MODEL

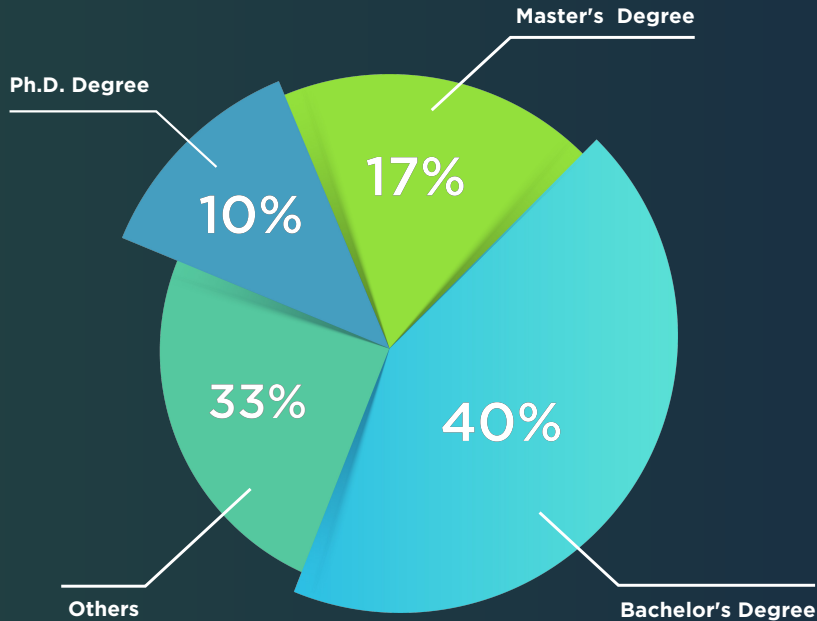
Hangsen utilizes advanced process management systems to ensure that teams in both locations can collaborate efficiently, significantly shortening the product development cycle and greatly saving customers' valuable time.

HRI

HRI (Hangsen Research Institute) is a globally leading research institution in the field of vaping. HRI is dedicated to research in areas such as vaping technology innovation, substance composition analysis, toxicology, compliance, and safety. It provides strong support for the safety, compliance, and technological innovation of Hangsen products.



60 RESEARCH MEMBERS



6
Ph.D. Degree

10
Master's Degree

24
Bachelor's Degree

WORLD LEADING E-LIQUID MANUFACTURER

BOTTLED E-LIQUID SOLUTIONS



MARKET
INSIGHTS



FLAVOR
CUSTOMIZATION



COMPLIANCE
SERVICES



DESIGN
SERVICES



LOGISTICS
SERVICES



LOCAL R&D
SERVICES



FLAVORS

NORTH AMERICAN SERIES

Rose Water

Mint Candy

Vanilla Nut Tobacco

Golden Virginia

Cuban

Raspberry Ice Cream

Pumpkin Pie

Biscoff Glazed Donut

Pepper Soda

Citronade

Citrus Punch

Blackcurrant Energy Drink

Strawberry Kiwi

Apple Peach Strawberry

Malaysian Mango

Blue Razz Lemonade

Grape Ice

Fizzy Cherry

Double Apple

Peach Ice

Watermelon Bubblegum

Cherry Passion Fruit

Watermelon Apple

Tangerine Blackcurrant

Watermelon Ice

Blueberry Ice

Orange Raspberry

Kiwi Pineapple

Cucumber Mint Lime

Pear Lemon

Note: These flavors are available on different PG/VG ratio. In addition, we also support the development of new flavors for OEM business.

Mint Candy

Mint Candy: Indulge in the exhilarating burst of freshness with our Mint Candy e-liquid. Experience the iconic sensation of mint, where each inhale delivers a crisp and invigorating minty blast. Immerse yourself in the cool and satisfying allure reminiscent of your favorite minty candy.



Raspberry Ice Cream

Raspberry Ice Cream: Savor the decadent delight of Raspberry Ice Cream e-liquid. Dive into the luscious blend of ripe raspberries swirled into creamy ice cream. Each inhale is a journey into the sweet and fruity, while the exhale leaves a creamy sensation that lingers, creating a vaping experience reminiscent of indulgent summertime treats.



Watermelon Ice

Watermelon Ice: Quench your thirst with the refreshing taste of Watermelon Ice e-liquid. Immerse yourself in the juicy essence of ripe watermelon, followed by a cool menthol breeze that revitalizes your senses. This flavor is a perfect balance of sweetness and chill, creating a summer-inspired vaping experience.



Strawberry Kiwi

Strawberry Kiwi: Delight in the harmonious blend of Strawberry Kiwi e-liquid. Experience the juicy sweetness of ripe strawberries complemented by the tartness of exotic kiwi. This flavor is a fruity symphony that dances on your taste buds, offering a refreshingly vibrant and balanced vaping sensation.



Blue Razz Lemonade

Blue Razz Lemonade: Quench your thirst for bold flavors with Blue Razz Lemonade e-liquid. Enjoy the electrifying fusion of blue raspberry sweetness and zesty lemonade tartness. Each puff is a burst of fruity and tangy goodness, creating a mouthwatering vaping experience that captures the essence of a summer beverage.



Tangerine Blackcurrant

Tangerine Blackcurrant: Embark on a citrus-infused journey with our Tangerine Blackcurrant e-liquid. Revel in the vibrant blend of tangy tangerines and the bold richness of blackcurrants. Each inhale brings forth the zesty essence of ripe tangerines, while the exhale unveils the deep, fruity notes of blackcurrant.



SERVICE PROCESS



1 DEMANDS CONFIRMATION

Communicate with clients to confirm product requirements, understand the market information and report will be provided to help clients know their demands.



2 FLAVOR DEVELOPMENT

According to the product design plan and target market, confirm the flavor raw materials and develop flavor samples.



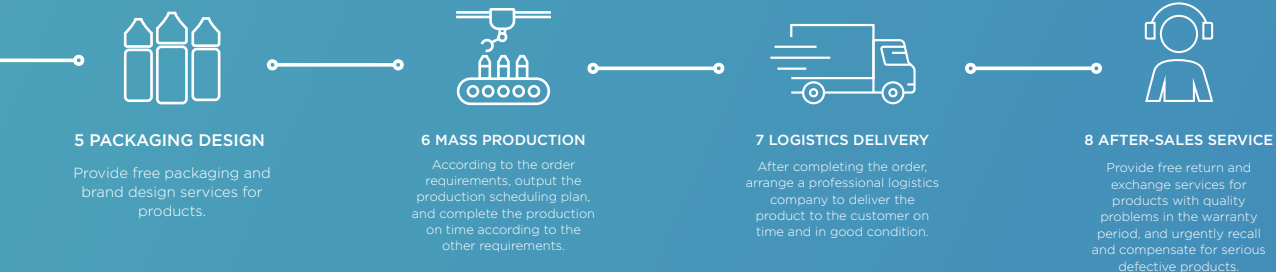
3 CUSTOMER ACCEPTANCE

Customers can check and accept the flavor samples, which can be confirmed by mailing the samples or in person at the headquarters of Hangsen.



4 SIGNING THE CONTRACT

Sign the contract after the customer selects the ideal amount and estimated delivery time, and completes the payment.



QUALITY MANAGEMENT

QUALITY CONTROL PROCESS

IQC

Visual
Inspection

Aroma
Inspection

Specification
Verification

Physical and
Chemical
Testing

IPQC

First Piece
Confirmation

SOP
Compliance

Production Line
Monitoring

Intermediate
Product
Inspection

OQC

Sensory Testing

Physical and
Chemical
Testing

Specification
Verification

Packaging
Testing

FQC

Detailed Visual
Inspection

Final Quality
Confirmation

Shipment
Preparation

Storage
Environment
Inspection

4

Production Node Control

2

Sensory Index Detection

47

Physical and Chemical
Test for Liquid

15

Physical and Chemical
Test for Gas

QUALITY MANAGEMENT

QUALITY STANDARDS

Hangsen follows a set of international quality management systems. In order to provide high quality products and services, the company has completed a series of international standard certifications such as HACCP, GMP, ISO 9001:2015.

On this basis, the company has been strictly implementing higher standards of internal production management and ERP management systems to ensure that our clients get consistent, high-quality products and services.



HACCP

Hangsen's production process is in compliance with the HACCP standard, which is a management system that solves food safety issues by analyzing and controlling biological, chemical and physical hazards from the production, procurement and processing of raw materials to the manufacturing, distribution and consumption of finished products.



GMP

GMP is a set of mandatory standards applicable to the pharmaceutical, food and other industries. Hangsen meets GMP hygiene quality requirements in terms of raw materials, personnel, facilities and equipment, production process, packaging and transportation, quality control and so on.



ISO9001

Hangsen ensures the safety, reliability and sustainability of products through strict implementation of ISO9001 international standards, while minimizing errors and improving customer satisfaction.



CNAS

Hangsen CNAS-certified laboratory equipped with advanced analytical testing equipment, including liquid chromatography and gas chromatography. Our laboratory is capable of conducting high-standard testing equivalent to the pharmaceutical industry.

QUALITY MANAGEMENT

SUPPLY CHAIN MANAGEMENT

Hangsen uses only the top grade ingredients to ensure our quality meets the highest standard in the industry.

- Hangsen has a long-term and stable cooperative relationship with many of the world's top raw material suppliers.
- All suppliers are in line with ISO9001 quality management system and GMP global excellent manufacturing standards.
- The pre-selected raw materials will be rated from multiple dimensions such as product development, quality appraisal, and procurement evaluation.

Givaudan[®]

symrise 

 MA







 Firmen
for good, nature

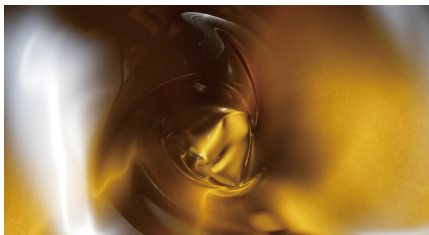
QUALITY MANAGEMENT

INGREDIENTS STANDARDS



PG & VG

- Conforms to European and the U.S. Pharmacopoeias (EP, USP)
- Originated from top global suppliers such as P&G and Dow



NICOTINE

- Including freebase nicotine, nicotine salts, and hybrid nicotine
- Conforms to European and American Pharmacopoeias (EP, USP)
- CNAS laboratory quality inspection



FLAVORINGS & OTHERS

- Including freebase nicotine, nicotine salts, and hybrid nicotine
- Conforms to European and American Pharmacopoeias (EP, USP)
- CNAS laboratory quality inspection

PACKAGING PROPOSALS

LABEL AND BOX



STARTER VERSION

ITEM	BASE LABEL	SMALL BOX	MEDIUM BOX
PAPER	Alley 5209	250G single copper	350G single copper
COLOR	CMYK	CMYK	CMYK
TECHNIQUE	Matte/Gloss Lamination	Matte/Gloss Lamination	Matte/Gloss Lamination



STANDARD VERSION

ITEM	BASE LABEL	SMALL BOX	MEDIUM BOX
PAPER	Alley 5209	250G single copper	350G single copper
COLOR	CMYK	CMYK	CMYK
TECHNIQUE	Foil stamping/UV/Embossing	Foil stamping/UV/Embossing	Foil stamping/UV/Embossing



PREMIUM VERSION

ITEM	BASE LABEL	SMALL BOX	MEDIUM BOX
PAPER	Special paper Bright silver- dragon, laser paper...	Special paper Silver card, gold card, textured paper...	Special paper Silver card, gold card, textured paper...
COLOR	Spot colour	Spot colour	Spot colour
TECHNIQUE	Foil stamping/UV/Embossing	Foil stamping/UV/Embossing	Foil stamping/UV/Embossing

NOTE: All sizes can be modified according to customer demand.
For more customised services, please contact us, our design team will serve you.

PACKAGING PROPOSALS

BOTTLE BODY AND CAP



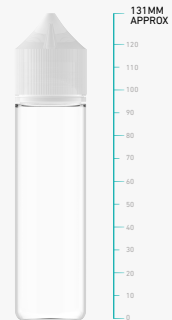
F Bottle + **J** Cap

15ml



D30 Bottle + **V3** Cap

30ml



D60 Bottle + **V3** Cap

60ml

NOTE: All sizes can be modified according to customer demand.
For more customised services, please contact us, our design team will serve you.

PRODUCTION & DELIVERY

WHITE LABEL PRODUCTION TIMEFRAME

Category	Order Quantity	Packaging with inventory	Packaging no inventory
Bottled E-liquid	1k-10k	3-5 days	9 days
	10k-30k	4-6 days	9 days
	30k-60k	7 days	9 days
	60k-90k	8 days	9 days
	90k-120k	9 days	12 days
	120k-200k	11 days	13-15 days
	200k-400k	13 days	15-17 days
Bulk E-liquid	1-5 tons	5 days	9 days
	5-10 tons	7 days	10 days

NOTE: The delivery time of logistics may also be affected by some uncontrollable factors, such as weather, traffic conditions, holidays, etc. It is recommended to consider the time factor, plan the receiving time in advance, so as to ensure timely and safe delivery.

DELIVERY TIMEFRAME*

Europe conventional areas	9-15 days
Russia and CIS	10-15 days
North America	15-20 days
South America	around 25 days
Oceania air freight Australia, New Zealand	9-15 days
Southeast Asia	10-12 days
Middle East	15-20 days

*The following transit times are calculated by air freight.



WORLD LEADING E-LIQUID MANUFACTURER

CONTACT US

service@hangsen.com

www.hangsen.com