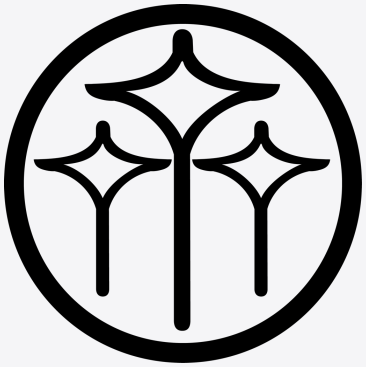


KEYCHEM

Vision

To be a trusted partner in rubber additives

Mission

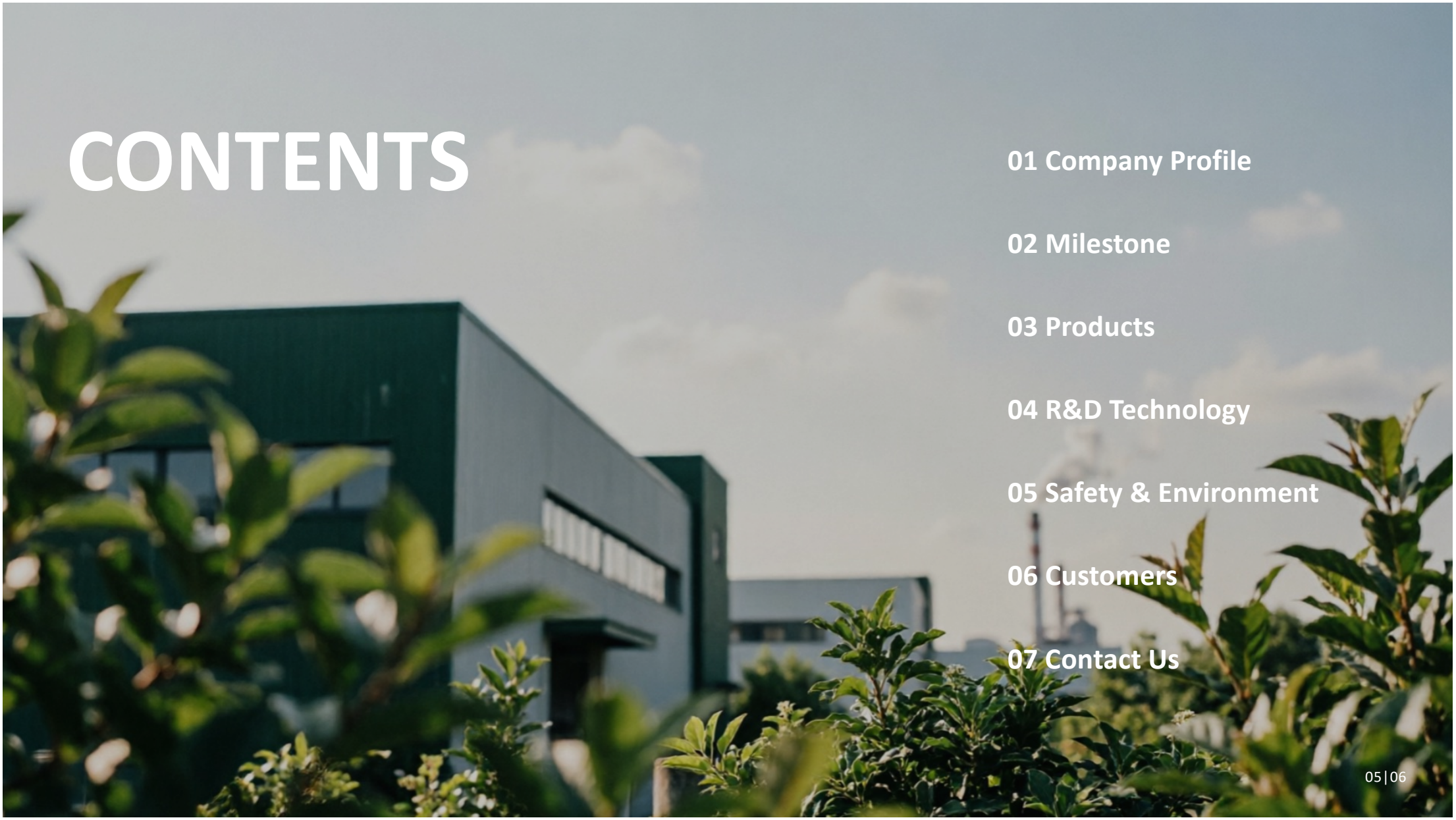
Create value for customers with craftsmanship

Values

Green · Innovation · Quality · Win-win

Quality from Dedication


CRAFT CHEMISTRY
GREEN FUTURE



CONTENTS

01 Company Profile

02 Milestone

03 Products

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About KEYCHEM

Shandong KeyChem Co., Ltd. was founded in 2021, located in Weifang, Shandong, specializing in the R&D, production and sales of rubber additives.

Registered capital: USD 7.5M. Total investment: USD 130M. Area: 90,000 m². 10 automated production lines.



01

COMPANY PROFILE



Built Strong, Built Right

Founded in 2021 · Registered Capital USD 7.5M

130
million USD Investment

90,000
m² Site Area

32,000
m² Standardized Workshops

7
Workshops

Smart Production, Automated & Efficient

Automated production lines cover core processes, ensuring stable and reliable output.

10

Smart Production Lines

80%

Automation Level

Automatic Feeding · Continuous Production · Online Inspection

Reduced manual intervention, stable batches, controlled quality





Complete Warehousing, Secure Transport

Solid warehouse and liquid tank farm, safe and compliant

5

Solid Warehouses · Total 8,500 m²

2

Liquid Tank Farm · Capacity 6,500 m³

WAREHOUSE MANAGEMENT

FIFO, Full Traceability

Separate management of solid warehouse and liquid tank farm, integrated with ERP system. Barcode and batch traceability, strict FIFO from inbound to outbound, ensuring material quality and batch stability.



PRODUCTION CAPACITY

14,000 tons/year

Antioxidant DTPD

20,000 tons/year

Adhesive RA-65

10,000 tons/year

Rubber Protective Wax

13,000 tons/year

Adhesive A

60,000 tons/year

Formaldehyde





Smart Control, Digital Management

DCS and ERP systems work together for full production visibility and control

DCS Distributed Control System

Real-time process data acquisition, automatic adjustment and interlock protection, remote monitoring for stable, efficient operation.

MES Manufacturing Execution

Full batch traceability, real-time energy and quality data, continuous performance improvement.





20+

YEARS

EXPERIENCE

Deep Industry Expertise

Core team with 20+ years in rubber additives and fine chemicals, from R&D to mass production, mature and reliable.

20+ Years of Technical Heritage

Heritage from Yechang Additives with 20+ years of history, mature processes, experienced core team.

23 people

Skilled Technicians (10+ yrs)

Solid skills, precise execution of every process.

29 people

Core Backbone (15+ yrs)

Full process knowledge, ensuring stable quality.

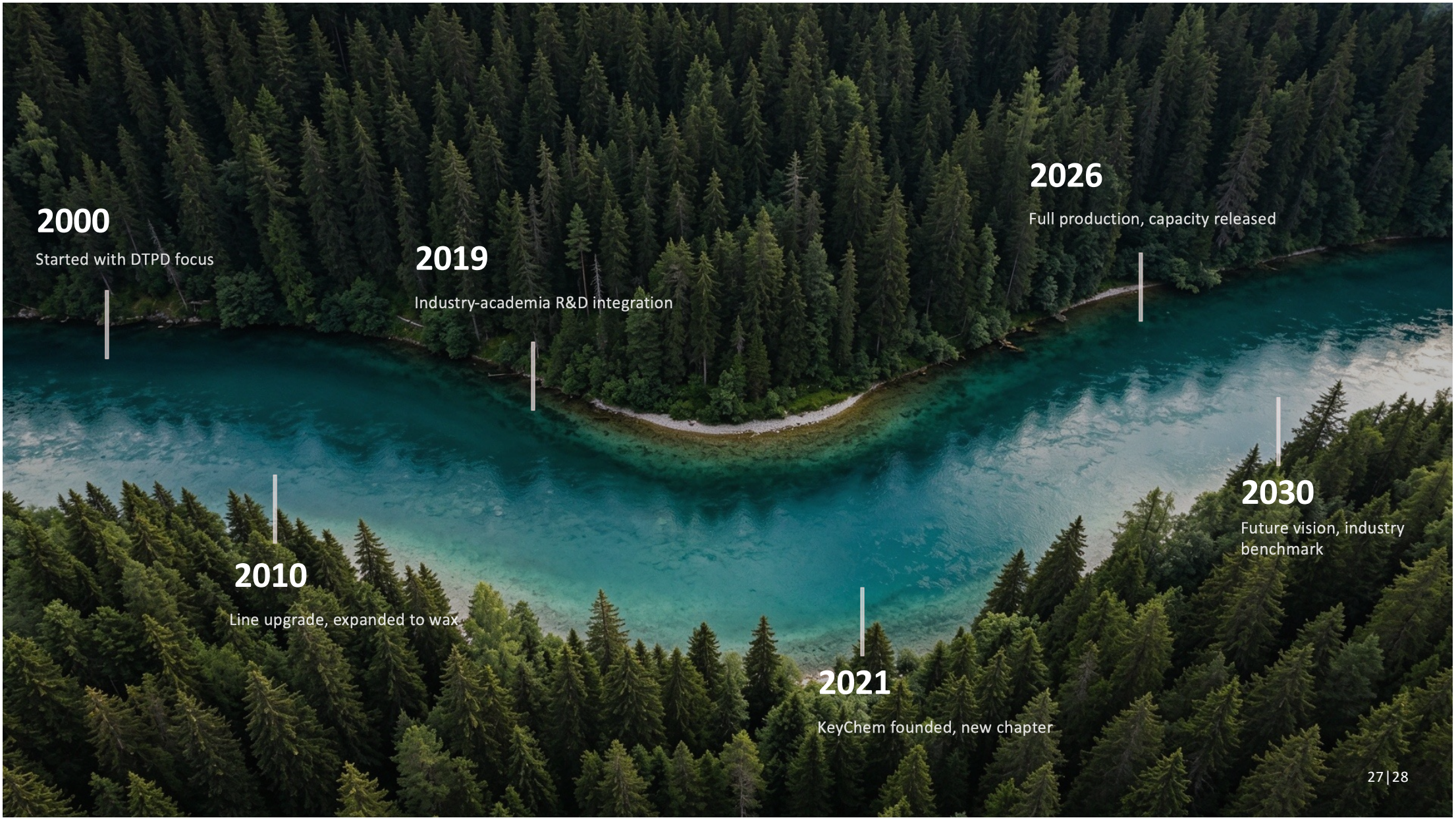
Stable core team, avg. tenure 10+ years, reliable quality and continuous improvement





02

MILESTONES


2000
Started with DTPD focus
2010
Line upgrade, expanded to wax
2019
Industry-academia R&D integration
2021
KeyChem founded, new chapter
2026
Full production, capacity released
2030
Future vision, industry benchmark



03

PRODUCTS



01

PRODUCT

ANTIOXIDANT DTPD

Chemical Name

N,N'-ditolyl-p-phenylenediamine mixed

CAS No.

68953-84-4

Applications

Tires, rubber products · Anti-ozone, anti-flex cracking, heat-aging resistance

Item	Spec
Appearance	Brown granules
Initial Melting Point/ ℃	92.0 ~ 98.0
Heating Loss / %	≤ 0.30
Ash Content / %	≤ 0.30
Purity (GC) / %	≥ 90.0



02

PRODUCT

ADHESIVE

RA-65

Chemical Name

Melamine resin methylene donor rubber adhesive

CAS No.

3089-11-0 · 7631-86-9

Applications

Resorcinol-HCHO-silica bonding system, enhances rubber-to-substrate adhesion

Item	Spec
Appearance	White Powder
Ash Content / %	29.0 ~ 35.0
Heating Loss / %	≤ 4.0
Residue on Sieve / %	≤ 0.3
Free Formaldehyde / %	≤ 0.1
Bound Formaldehyde / %	≥ 40.0



03

PRODUCT

Rubber Protective Wax

Product Type

Physical Antioxidant

Main Function

Ozone protection · protective film on surface

Storage Note

Store in cool, dry place; avoid caking at high temp.

Item	Spec
Appearance	White granules
Kinematic Viscosity (100°C) / mm^2/s	5.5 ~ 7.5
Congealing Point/ °C	63 ~ 69
Heating Loss / %	≤ 0.2
Ash Content / %	≤ 0.1

04

PRODUCT

Adhesive A

HMMM

Chemical Name

Hexamethoxymethyl melamine resin

CAS No.

3089-11-0

Applications

Resorcinol-HCHO-silica bonding system methylene donor

Item	Spec
Appearance	Colorless transparent viscous liquid
Purity / %	≥ 98.0
Density / g/cm³	1.20 ~ 1.22
Free Formaldehyde / %	≤ 0.3
Bound Formaldehyde / %	≥ 40.0



05

PRODUCT

Formaldehyde

37% Industrial Grade

Chemical Name

Formalin / Formic aldehyde

CAS No.

50-00-0

Applications

Wood-based panel adhesives · Synthetic resins · Fine chemical raw materials

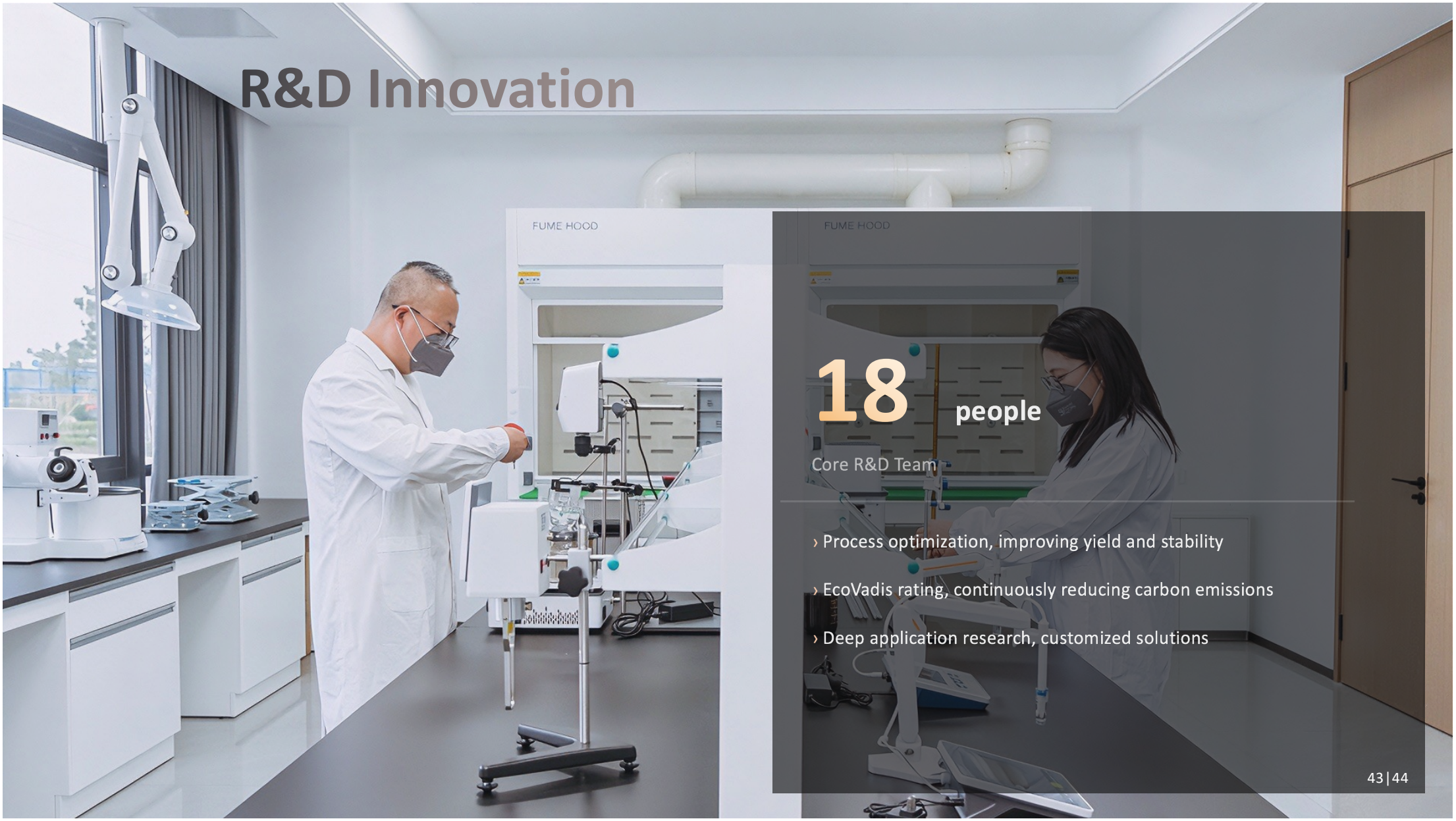
Item	Spec
Appearance	Colorless transparent liquid
Density / g/cm³	1.075 ~ 1.114
Formaldehyde Content (HCHO) / %	37.0 ~ 37.4
Acidity (as formic acid) / %	≤ 0.02
Color (Hazen)	≤ 10
Fe Content / %	≤ 0.0001





04
R&D TECHNOLOGY

R&D Innovation



18 people

Core R&D Team

› Process optimization, improving yield and stability

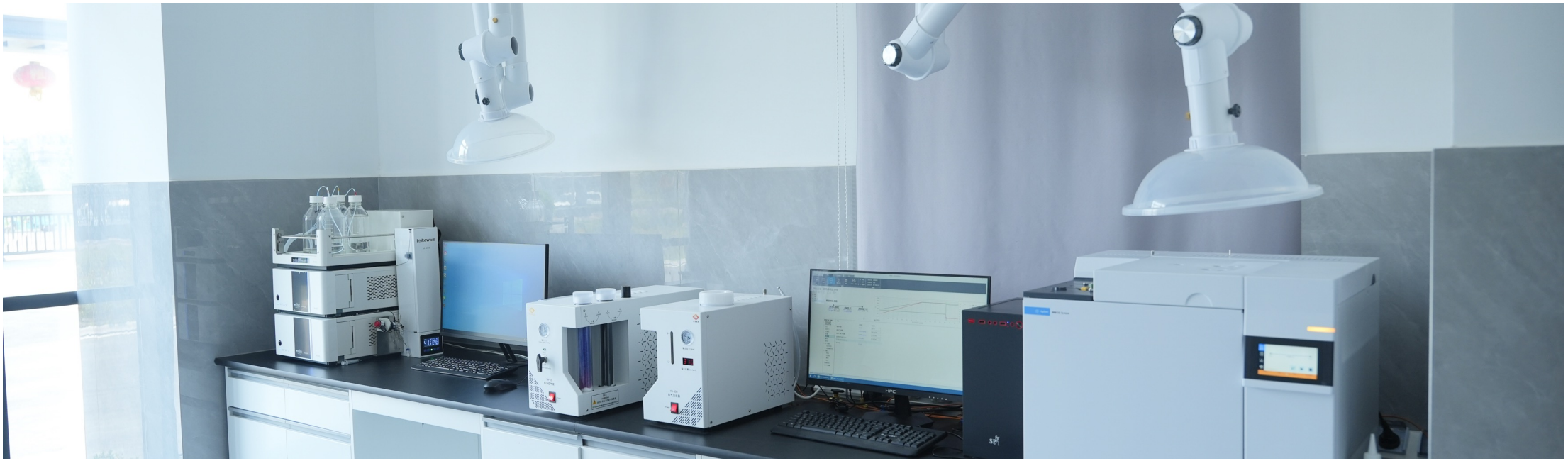
› EcoVadis rating, continuously reducing carbon emissions

› Deep application research, customized solutions

QUALITY CONTROL



01 Raw Material Inspection → 02 Process Control → 03 Finished Product Inspection → 04 Batch Traceability



Continuous Improvement

Data-driven improvement per batch, excellence in every process

99.8%

Product pass rate

› Strict ISO 9001 quality management system

› Raw material · In-process · Finished product inspection

› Batch traceable, no non-conforming products shipped



80+

professional lab equipment units

Gas Chromatograph

5 units

HPLC

2 units

Analytical Balance

6 units

Melting Point Tester

2 units

Rotational Viscometer

3 units

Rotary Evaporator

2 units

Benchtop pH Meter

3 units

Conductivity Meter

2 units



05

SAFETY & ENVIRONMENT

Safety Production

Safety is the bottom line, prevention is our responsibility

01 Automated Control System

DCS/SIS real-time monitoring, automatic interlock protection

02 Personnel Positioning & Online Monitoring

Full coverage personnel positioning, no blind spots in video monitoring

03 Data Upload to Provincial Platform

Safety data uploaded in real time to provincial supervision platform

DCS/SIS · Personnel Tracking · Provincial Platform



Safe & controlled · Real-time monitoring



Innovation-Driven, Green Chemistry

Scientific planning · Smart control · Green low-carbon modern manufacturing base

Waste Gas Treatment

VOC absorption → RTO combustion → Activated carbon adsorption, compliant discharge

Wastewater Treatment

Multi-effect evaporation + biological treatment, reducing hazardous waste

Online Monitoring

Real-time monitoring of gas/water discharge outlets, data uploaded to environmental authorities

Energy & Material Recycling

Cascade steam utilization, material recycling, cost reduction and efficiency



Sustainable Development: Circular Economy & Energy Efficiency

01 Internal Heat Integration

Steam from formaldehyde unit directly supplies adhesive distillation, achieving internal heat integration.

02 Dilute Formaldehyde Recycling

12% dilute formaldehyde from adhesive unit blended with 50% stock to 37%, by-products reused in production.

03 Win-Win for Environment & Cost

Two-way synergy of heat and materials, reducing wastewater costs and recovering material value.



06

CUSTOMERS

MARKET & CUSTOMERS

100+

Domestic & Overseas Clients

10+

Export Countries & Regions

Products exported to USA, Mexico, India, Thailand and more, serving global chemical clients



Selected tire clients



07

CONTACT US

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