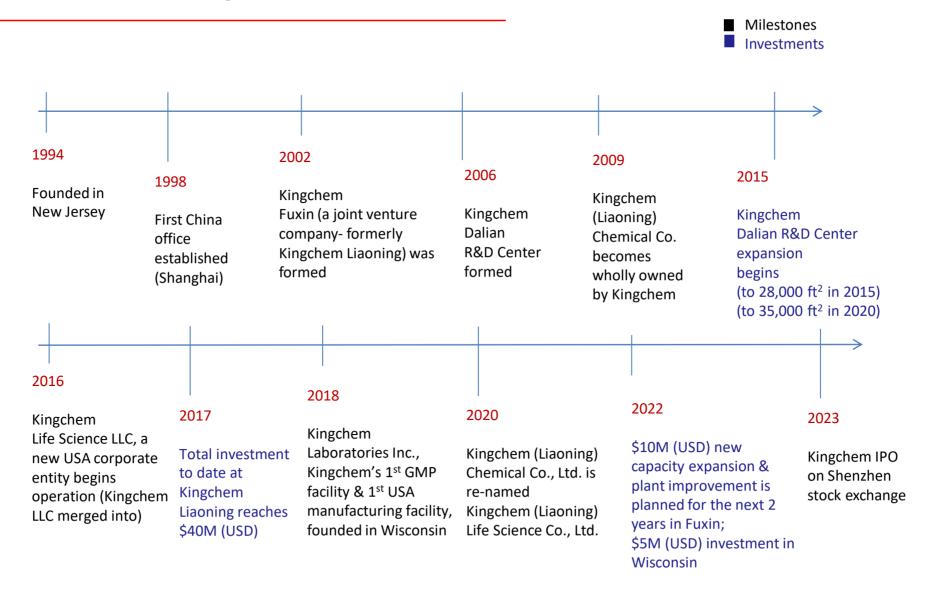


Our History

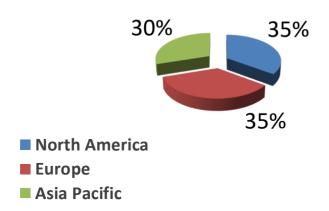


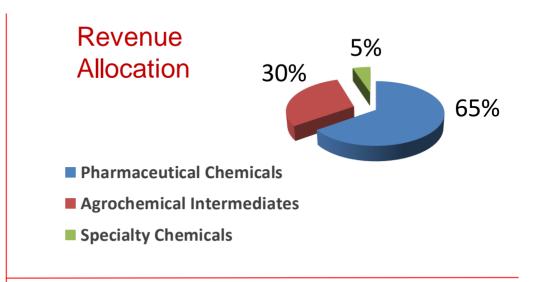


Business Breakdown

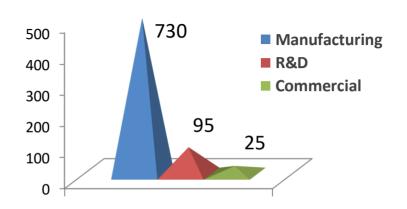


Markets





Global Employees: 850



Locations Worldwide







All Phases of Development





R&D

Process Development From grams to 1 kg Dalian, Fuxin, Wisconsin



Kilo

Process Optimization From 1 kg to 10 kg Dalian, Fuxin, Wisconsin



Pilot

Initial Commercialization
From 10 kg to 1000 kg
Fuxin and Wisconsin



Full

Full Commercial Scale From 1 MT to >1000 MT Fuxin and Wisconsin

Kingchem offers reliable fully-integrated CMO services at all scales

Fuxin Plant





Facts

• Total mfr. capacity: 1,194 M³

• Temperature range: -100° C ~ 300° C

• Vacuum: 2-5 mm Hg (Production)

Pressure: Max. 10 MPa (Fluorination)
 Max. 4 MPa (Hydrogenation)

Reactors

Pilot plant: 50-3,000 LProduction: 2,000-10,000 L

Distillation: 300-12,000 L

Land & Buildings

• Total Staff: 700 +

• Site area: 160,000 m²

• Building area: 57,000 m²

Site Certifications

•ISO9001: 2015 Certificate of Quality Management

•ISO14001: 2015 Environmental Management Certificate

•ISO45001: 2018 Health and Safety Management System



Production Capabilities: Chemistries

Specializing in

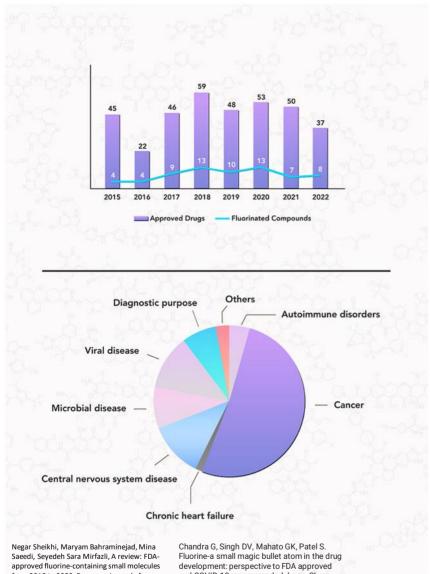
- Cryogenic Reaction/Organolithium Chemistry
- Fluorination
- Grignard Reaction
- Halogenation
- Hofmann Rearrangement

- Hydrogenation
- Phosgenation
- Suzuki Reaction
- Skraup Quinoline Synthesis
- Van Leusen Reaction



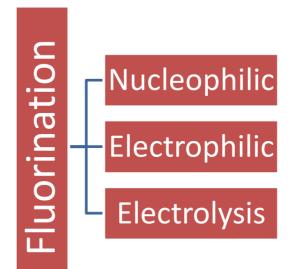
Specialty Capability, Fluorination





Fluorination is Kingchem's core competence

- Approximately 20% of pharmaceuticals and 50% of agrochemicals marketed are fluorinated compounds.
- 2021 7/50 approved drugs are fluorinated compounds
- 2022 8/37 approved drugs are fluorinated compounds







Kingchem Liaoning Life Science

Chemistry Capabilities

- Acetoacetylation
- Acylation
- Alkylation
- Aminoalkylation
- Boronic chemistry
- Chiral synthesis
- Cryogenic reaction
- Diazotization
- Dieckmann reaction
- Etherification
- Esterification
- Freidel-Crafts reaction
- Grignard reaction

- Heck Reaction
- Halogenation (additional)
- Halomethylation
- Hofmann rearrangement
- Hydrazine chemistry
- Michael addition
- Nitration
- Organolithium chemistry
- Oxidation
- Phosgenation
- Sulfonation
- Suzuki coupling
- Ullmann reaction

Production Site





Land & Buildings

• Total Staff: 30 +

• Site area: 2 acres

• Building area: 33,000 ft²

Reactors

• Prod Scale: grams to MTs

• Production: 200-6,000 L

• Distillation: 20-800 L

Facts

• Total mfr. capacity: 4200 gal (~16 m³)

• Temperature range: -75° C ~ 250 °C

Vacuum: <1 mmHg (Distillation)

• Pressure: Max. 90 psi

Production Site Certifications

- Drug Establishment Registration FDA (DUNS: 06-194-7683, FEI: 0002129414)
- State of WI, Dept Safety and Prof Services Pharmaceutical Manufacture

- Food Processing Plant (Facility Identifier: 12671692120)
- FSSC 22000 Certification (SGS Group)
- Kosher Certification (Chicago Rabbinical Council)
- Halal Facility Certification (Islamic Services of America)





Why Kingchem?

- Over 25 years proven track record serving global pharmaceutical & chemical industries
- R&D and manufacturing capabilities in China & U.S.A
- · Vertical integration and support through all phases and scales of product development
- Innovative and cost-effective application of technology to solve manufacturing challenges
- Integrity: Respect for customer IP, with dedicated IP controls
- Western management and Eastern operational costs for most products
- Well-established systems and logistical operations
- Effective environmental, health & safety (EHS) compliance
- R&D capabilities:
- ✓ Research & Kilo Labs

- ✓ Full In-House Analytic Capability
- ✓ Process Development & Optimization
- ✓ Custom Synthesis

✓ Project Management

✓ Contract R&D

Additional Information



- New Product Development
- Analytical Services
- Kilo and Pilot Plant
- Production Facilities
- Reaction Chemistry and Expertise

Experienced R&D Team



Personnel

Our global team of research chemists and engineers hold educational credentials from Bachelors through Masters and PhD.

Our team excels at synthesizing complex small-molecules and developing commercial processes to be run at Kingchem's manufacturing facilities in China and in the US.



Kingchem has R&D labs at each of our manufacturing sites in Fuxin, China and Wisconsin, USA in addition to our R&D Headquarters located in Dalian, China.

The state-of-the-art Dalian R&D facility was established in 2006 and was expanded and remodeled in 2015 (to 28,000 ft²) and again in 2020 (to 35,000 ft²).





R&D Capabilities

Kingchem

Technology Center (Fuxin)

- New \$2.5 million Facility
- 2200m2 (~23,680ft2)
- OC Lab
- OA labs
- 4 R&D labs
- 2 Kilo labs
- Reversed QC lab for GMP analysis.
- Expands plant analytical capabilities, e.g., elemental analysis of ICP-OES Agilent 5800, UPLC Agilent 1290, NMR analysis, and different levels of scaled-up production capabilities.



Kingchem Technology Center / Fuxin, China



Kingchem R&D Center / Dalian, China

Kingchem

Kingchem Life Science

R&D Facts

- 107 Research hoods
- 37 Walk-in hoods
- 2x Kilo lab facilities
- SF₄ chemistry lab
- 20-, 50- & 100-liter reactors
- Vacuum filtration
- Thin-film evaporator
- Buchi rotary evaporator
- Fractional & vacuum distillation
- Column purification
- EasyMax RSD (Thermal Hazard Technology)

Analytical Capabilities





All instrumentation is regularly calibrated by original equipment manufacturers.

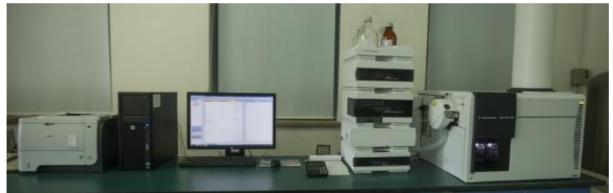


Analytical Instrumentation

- Agilent GC
- Agilent GC-HS7697A
- Agilent GC-MS
- Agilent HPLC
- Agilent ICP-OES
- Agilent LC-MS
- Bruker NMR (400 MHz)
- Merck water purification system
- Mettler Toledo K-F Titrator
- Mettler Toledo Potentiometric Titration
- Stability Testing Capability
- IR (Shimadzu)
- DSC
- NMR (400 MHz)
- Thermo Scientific Charged Aerosol Detection for Liquid Chromatography
 - ✓ State of the art charged aerosol detection technology can be used with the most up-to-date liquid chromatography instrumentation to measure analytes that cannot be seen by UV and may not be readily detected with other detection techniques, including molecules without chromophores.

Analytical Capabilities

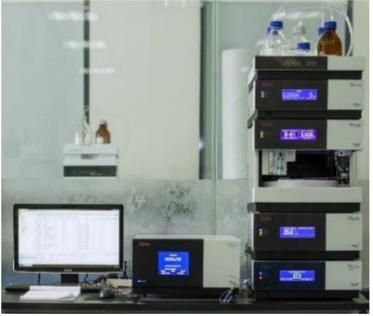




Agilent 6230 TOF LC/MS



Agilent 5975C MSD (Left-side) Agilent 7890A GC (Right-side)



Thermo Scientific ultimate 3000 HPLC-CAD

Analytical Capabilities





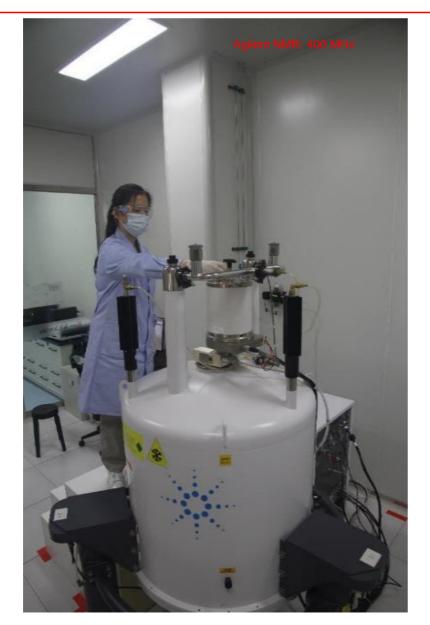
Instruments	Dalian	Fuxin	Wisconsin
GC	7	19	5
HPLC	14	14	8
GC-MS	1	1	1
ICP-OES	0	1	0
LC-MS	2	0	1
NMR	1	1	3
UV/VIS	1	1	1

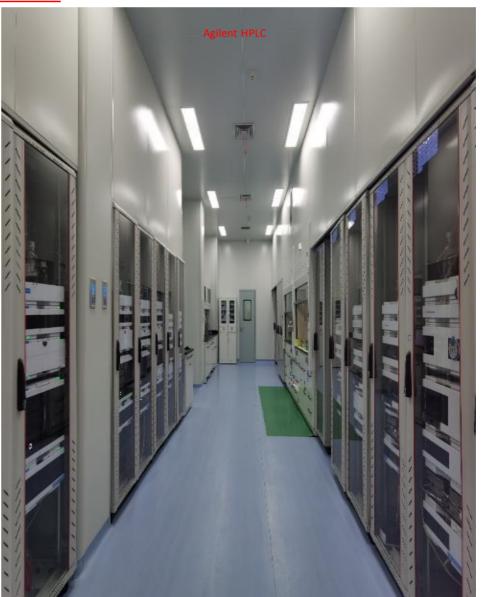


Bruker ultrashield 400 plus

Analytical Capabilities, Fuxin







Analytical Capabilities, Fuxin







ICP-OES, Agilent 5800



Agilent GC-HS





- 20-50 L glass reactors temp. range -78 to 200°C
- 1-5 L pressure reactors with up to 10 MPa
- Thin-film evaporator
- Büchi rotary evaporator
- Fractional & vacuum distillation capability
- Silica gel column purification capability





From R&D to Production



- > Project transfer meeting between Dalian & Fuxin
- > Demo batch in Fuxin lab by R&D technician
- Further optimization and scale-up at kilo lab in Fuxin site
- > Full technical support during production by R&D technician
- > Team training and troubleshooting



Fuxin Kilo-lab



Kilo-Lab in Fuxin





20 L Glass Reactor





50 L Glass Reactor



Thin Film Evaporator





Flow Chemistry Benefits Include:

- Cleaner
- Smarter
- More efficient
- Reduced reaction times
- Reduced plant space
- Less energy cost
- More efficient processes
- Reduced waste
- Safer overall



Continuous Flow Lab in Dalian



Kingchem's R&D Center Flow Chemistry Lab Facts:

- Set up in August 2020.
- Operated by a dedicated, experienced group.
- Lab equipment includes:
 - Two microreactors (Hastelloy and silicon carbide)
 - Two fixed-bed reactors
 - One automatic hydrogenation reactor.
 - ✓ These devices can carry out many types of chemical reactions.
 - ✓ The process of continuous nitration, hydrogenation, oxidation by air, and ortho-claisen thermal rearrangement are well developed.
 - ✓ In the future, further flow-chemistry process will be developed to meet customer requirements.

Continuous Flow Lab (Dalian)



Fixed-bed Reactor



Manufacturer: Dalian Senjietec Co.

Equipment parameters:

- Two Gas Input
- One Liquid Input
- Reactor Size: Diameter 10mm,lenth 400mm
- Temperature: RT to 400°C
- Pressure: 0-6MPa
- Gas Feeding Rate: Max 200ml/minLiquid Feeding Rate: Max 50ml/min

(Application: Hydrogenation, Oxidation, Amination

Micro Reactor-SiC



Model: RMCS181003 CS2

Structure of material: SiC

Reactor volume for single slice: 8.7ml

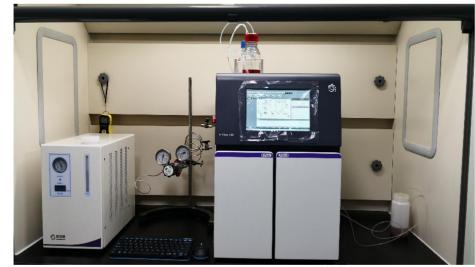
Reaction pressure: $0 \sim 1.8 \text{Mpa}$ Reaction temperature: $-25 \sim 200 ^{\circ}\text{C}$

Total reaction slice:

Continuous Flow Lab (Dalian)



Automatic Hydrogenation Reactor



Manufacturer: Ou Shi Sheng (Beijing) Technology Co., Ltd.

Structure of Material: 316L

Reactor Volume: 5.6ml
Catalyst Particle Size: 0.2-2mm
Reaction Pressure: <10Mpa

Reaction Temperature: Room temperature ~200°C Preheater Temperature: Room temperature ~200°C

H-Flow-S10

Liquid Feed Flow Rate: 0.1~10ml/min

Liquid Feed Accuracy: ±1%FS

Tracing Temperature Of

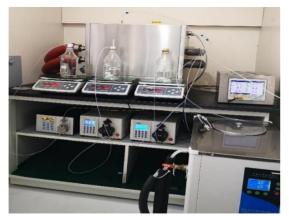
Liquid Circuit:

Model:

Room temperature ~200°C

Hydrogen Feed Flow Rate: 5~100sccm Nitrogen Feed Flow Rate: 5~100sccm Dimension (d * w * h)mm: 570*430*625

Micro Reactor-Hastelloy



Manufacturer: Shandong Himile Group

Model: RMHS2020 HS2

Structure of Material: Hastelloy Reactor Volume for Single Slice: 8.8ml

Reaction Pressure: $0 \sim 5.5$ Mpa reaction Temperature: $-25 \sim 200$ °C

Total Reaction Slice: 5



Workshop K201 Multipurpose

2,000 to 5,000 liter, 70M³







Synthesis Area IPCs

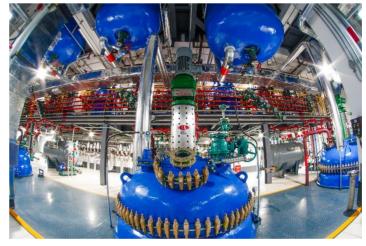
- Real-time monitoring of temperature and pressure
- Real-time monitoring excessive temperature
- Real time pH changing/adjusting system
- Over limit alarm system
- Pressure safety valve systems
- Flammable gas and smoke detection systems















K301, Agitated filter drier 2.5 m²







Workshop K201 Multipurpose





Isolation Area



Recrystallization



Auto. Bottom Discharge Centrifuge



Double Cone Dryer



Screening



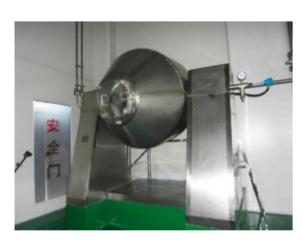
Workshop K203 Multipurpose

100 to 3,000 liter, 32M³





Pharma Intermediates workshop with class 100,000 clean room







Workshop K108 – Capabilities

2,000 to 6,300 liter, 100M³



2nd Floor



1st Floor



- New multi-purpose workshop
- ✓ Building includes unused space held in reserve for future manufacturing-capacity expansion

4th Floor







Centrifuge



Flexible Intermediate Bulk Container (FIBC)



Mettler Toledo FIBC Automated system

Fluorination capabilities



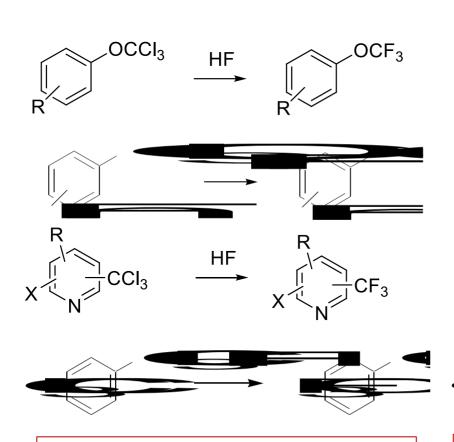
➤ Deoxyfluorination with SF₄

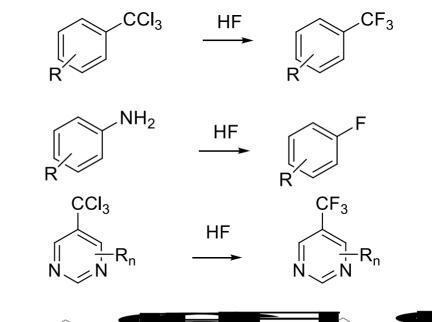




HF Fluorination

Production history back to 2002 Chemists with 30 years experience





Units: 1000L ~3000L

10 reactors ,16M3

MOCs: MnR, Ni6, Hastelloy, Q345R Pressure: <10 MPa, Temp: < 260°C

35





KF Fluorination (Halogen Exchange)



$$X \longrightarrow KF$$
 $R \longrightarrow KF$
 $X=CI, Br, I$

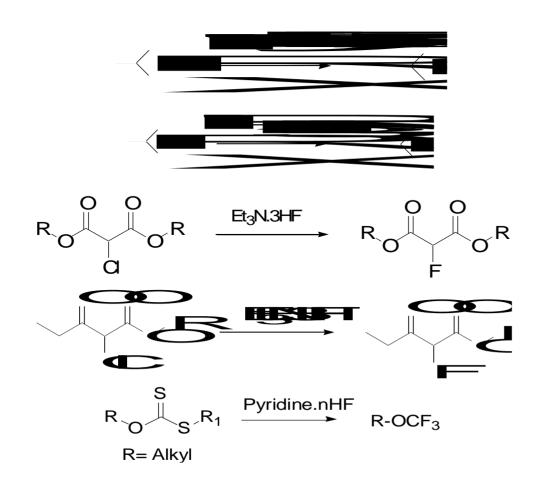
Units: 200L to 6300L, 5 reactors, 15.3M³

Temp: < 250°C





Hydrogen fluoride complex





Units: 2L,10L,500L

Temp: -80 °C - 50°C





Deoxyfluorination

Fluoroalkylation

$$R \xrightarrow{O} OH \longrightarrow F_2CIC \xrightarrow{O} ONa \longrightarrow R \xrightarrow{O} CHF_2$$





Tetrabutylammonium fluoride (TBAF)

Fluoroboric acid (HBF₄) fluorination

$$\begin{array}{c|c}
 & R & \\
 & N & \\
 &$$





Sulfur tetrafluoride (SF₄)

$$R$$
 OH
 SF_4
 R
 CF_3

$$F_3C$$
 F_3C
 F_4
 F_3C
 F_4
 F_3C
 F_4
 F_3C

$$O \longrightarrow N-Si \longrightarrow O \longrightarrow N-S-F$$





Fluorination capabilities



> Nucleophilic fluorination with TMAF

Electrophilic fluorination with Selectfluor

> Trifluoromethylation

$$R-OH \longrightarrow R \longrightarrow R' \xrightarrow{HF-Py} R-OCF_3$$





Electrophilic Fluorination with SelectfluorTM

$$Ph = R \xrightarrow{Selectfluor^{TM}} R \xrightarrow{O} Ph \xrightarrow{CF_2R}$$

$$X \stackrel{\text{OH}}{=} X \stackrel{\text{O}}{=} X$$

Fluorination Chemistry



SF₄ Fluorination (Workshop K106)



Lab Scale (2L SF₄ Cylinder each charge)



Temp: down to -60 °C Pressure: up to 4 MPa

SF₄ Fluorination (Workshop K105)



Production Scale 2000 Liter (Hastelloy)





Electro-fluorination

$$H_{(2n+1)}C_n$$
 C_n C_n



Units: 50L*1, 500L*3, 800 L *3

Fluorination Chemistry



Fluorination with fluorine (F₂)



Structure of material	316L	
Reactor volume	500ml	
Reaction pressure	6.0Mpa	
Reaction temperature	- 25 ~ 150°C	
Fluorine feed flow rate	1~100Nml/min	
Nitrogen feed flow rate	1~100Nml/min	



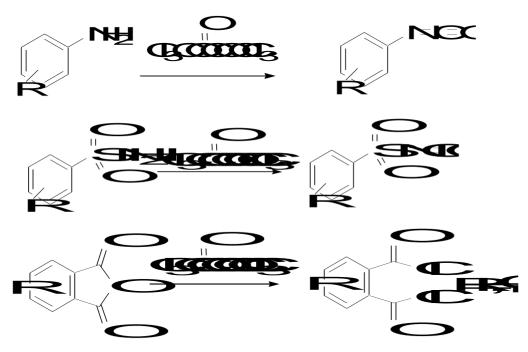


Core Competencies-Chlorination





Core Competencies-Phosgenation





Units: 3000L * 4 reactors (G.L.)

Temperature: -20 to 200 °C





Core Competencies-Hydrogenation

$$X \mapsto X \mapsto X \mapsto X = CI, Br$$
 $C \equiv N \mapsto R \mapsto CHO$
 $R \mapsto C \equiv N \mapsto R$
 $R \mapsto CH_2 \mapsto CH_2$

Units: 4 * 2,000 L reactors

Temp.: Up to 200 °C Pressure: Up to 4.0Mpa





Grignard Reactions

Core Competencies-Grignard Reaction

$$R-X \xrightarrow{Mg} R-MgX \xrightarrow{SiCl_4} R_nSiCl_{(4-n)}$$



100L*1, 1000L*3 reactors





Cryogenic Reactions

Units: 100L*1, 1000L*1,

3000 L*2

Pressure: 1.0 to 4.0 Mpa

(145 to 580 psi)

Temperature: -20 °C to -78 °C

Refrigeration: -78 °C to -20 °C

Liquid Nitrogen: -120 °C

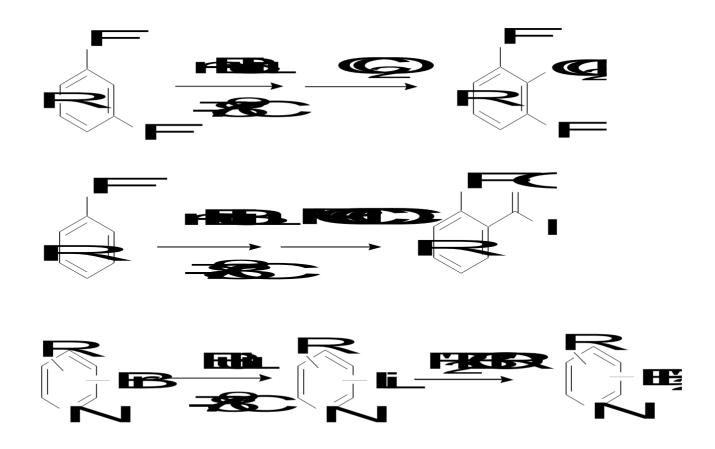
Pressure: up to 1.6 MPa







Cryogenic Reactions



High-Temperature Reactions Facility (Workshop K206)



Overview K206

Critical
Centrifuge
& Reactor

Kingchem Core Technologies



Nitration Reactions

$$R = \frac{\text{INO}_3}{\text{II}} \qquad R = \frac{\text{NO}_2}{\text{II}}$$

R=H, X, Alkyl, Aryl, OR, CX_n

$$R = \frac{1}{N} O_{1} O_{2} O_{2} O_{2} O_{3} O_{4} O_{1} O_{1} O_{1} O_{2} O_{2} O_{2} O_{2} O_{3} O_{4} O_{4} O_{4} O_{5} O_{5$$

2000L*8 reactors
Temps down to -20 °C

Ammonia Reactions

$$R \longrightarrow R \longrightarrow R \longrightarrow R \longrightarrow NH_2$$

5000L*3 reactors
Temps up to 150 °C





Indole and Oxindole Chemistry

Indole

Oxindole

$$R = Br, OCH_3, NO_2, NH_2, CN$$





Skraup quinoline synthesis

Newman-Kwart rearrangement

Claisen condensation





Experience with Pyrazoles

- Our R&D has worked on dozens of structurally different pyrazoles over the last several years
- Kingchem has developed in-house technology as well as patented some of our syntheses for pyrazoles
- Kingchem has successfully commercialized a pyrazole, producing more than 10 MT
- R groups include alkyl, aromatic, halogens, amines, carboxylic acids, and other functional groups





Sandmeyer reaction

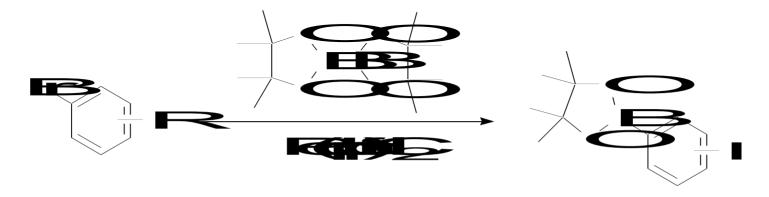
$$R-\begin{bmatrix} & & & & \\ & & &$$

Vilsmeier-Haack reaction





Palladium catalyzed borylation



Suzuki coupling





Hofmann rearrangement

Van Leusen reaction

Chan-Lam coupling

$$B(OH)_2 + HO \longrightarrow Cu(OAc)_2, Et_3N$$

Warehousing: Logistical Abilities







- Fast turn around
- New Jersey Location
- · Experience importing DEA List-1
- C-TPAT certified

New Jersey: Brook Warehousing Systems

Brook

- Logistics solutions serving New Jersey's chemical, pharmaceutical and food industries.
- Compliance, continuous-improvement, environmental and customer-service oriented approach.
- · U.S. Customs Bonded Warehousing
- Safe, clean, and secure facilities staffed with experienced professionals.
- D.O.T. Hazardous Materials Training, IATA, IMO, and OSHA in accordance with local, state and federal regulations.
- · Close to major transportation

California: BDP International



- A global network group with over 300 offices in 135 countries
- Numerous industry associations
- Numerous industry accredited certifications
- Diverse services available

Services Available

- Ambient and temperature controlled
- · Cross-docking
- Just-In-Time Shipping
- Trans-loading
- · C-TPAT compliance
- DEA List-1 Registered
- HazMat
- Flammables
- Shelf-life management
- Inventory management
- Vendor compliance
- EDI communication

Logistics Enabled

- · Reliable, on-time delivery
- National LTL & truckload
- Temperature controlled transportation
- Container drayage
- Intermodal
- Consolidation
- Freight management

Power Supply Management



Electrical System

- ☐ Transformer Substation & Backup Power Capacity: 11,300 KVA
- ☐ Currently our backup can sustain Emergency Response systems, computer network & limited production



Refrigeration Station (540 kW) Add. Ref. Station (2x590 kW) dedicated for K301



Additional Recent Investments:

- High-voltage double loop power supply, 2x1,600 kVA transformer for K301 & K302
- Standby 1X1,600 kVA (Kilovolt-amp) transformer
- New diesel fuel electricity generation
- Substantial production electrical backup support





In-house Biological Wastewater Treatment

Proactively managing waste to minimize the environmental impact of manufacturing.



- Biochemical treatment
- Capacity 700T/Day WW
- Transport to the WW Treatment Center of Industrial Park after treatment
- COD ≤ 500, pH: 6 9
- F: ≤ 10 ppm
- NH₃-N: ≤ 30 ppm
- Salinity: ≤ 6,000 ppm





Solids & Gas Treatment

Proactively managing waste to minimize the environmental impact of manufacturing.

Solids Disposal after sorting Disposal by qualified company



Scrubber System

Gases



Incinerator





On site incineration unit:

Slab-type incinerator

Suitability: High concentration and high salt organic waste liquid.

Fuel selection: Natural gas

Incineration temperature: 500~850°C (1st combustion), ≤1100°C (2nd Combustion).

Incineration release: in compliance to GB18484-2001:

https://wenku.baidu.com/view/2ca61a091 6fc700abb68fcad.html



Beyond the Chemistry: EHS



Proactive EHS

- 200 meters away from fire-brigade
- 15 minutes away from nearest hospital
- Emergency evacuate & assembly-point training
- Emergency drilling of HF/Cl2 leakage scenarios
- Kingchem offers high-level corporate support to EHS
- Kingchem promotes cooperation with governmental emergency, safety, environmental- and public-health bureaus to help the entire response network address preparedness concerns
- Kingchem's Fuxin plant is the local training ground for governmental agencies, and other companies











Training Exercises: Kingchem Liaoning Life Science Co.

Kingchem's Safety Commitment



- ➤ At Kingchem we are committed to safe, cost effective, and environmentally conscious scale up.
- The advanced synthesis and safety evaluation performed at Kingchem ensures the reaction conditions are well understood and our processes are reliable.

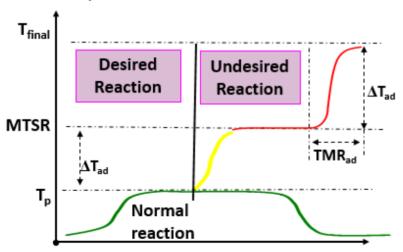


Fig. Runaway scenario (Stoessel,2009)

Table. Assessment criteria for the severity of a runaway reaction (Stoessel, 2009)

Severity	∆Tad	Р	Extension
Catastrophic	>400	P _{test}	≥site
Critical	200-400	$Pmax < P < P_{test}$	Site
Low	50-200	$P_{set} < P < P_{max}$	Plant
Negligible	<50	P <p<sub>set</p<sub>	Equipment

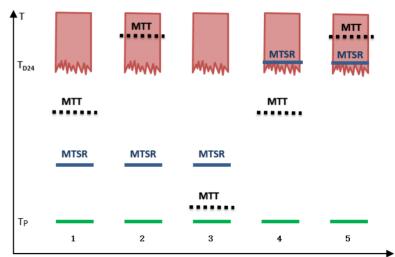


Fig. Criticality classes of scenario (Stoessel, 2009)

 T_p – Initial temp in cooling failure MTSR – Max Temp of Synthetic Rxn MTT – Max technical temperature. BP or pressure valve. T_{D24} – Highest unproblematic temp



- > RC-1 (Mettler Toledo)
- DSC (Mettler Toledo)
- RSD (Thermal Hazard Technology)
- EasyMax (Mettler Toledo)



DSC (Mettler Toledo)



RSD (Thermal Hazard Technology)



EasyMax (Mettler Toledo)



RC1 (Mettler Toledo)

>RC-1 (Mettler Toledo)

What is Reaction Calorimetry?

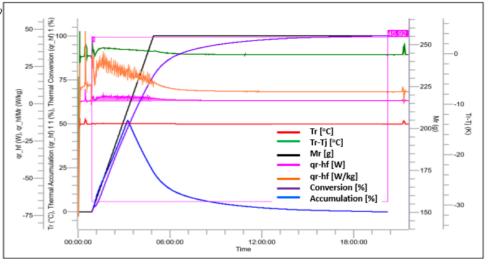
Reaction calorimetry measures the heat released from a chemical reaction or physical process and provides the fundamentals of the thermochemistry and kinetics of a reaction.

The information obtained is essential to describe the heat release of a chemical reaction over time, and to safely transfer it from lab to plant.

- Uncovers unexpected reaction behavior
- Makes any scalability issues visible and quantifiable
- Identify issues related to heat and mass transfer or mixing
- Allows the determination of the correct temperature, stirring or dosing profile
- The information obtained is subsequently used to evaluate the risk, scalability and criticality of a process



ingchem Life Science





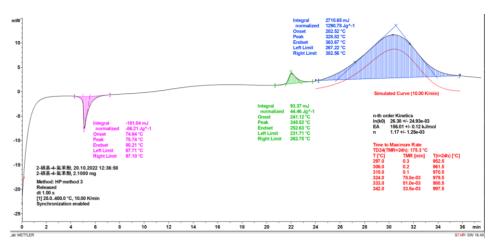
➤ DSC (Mettler Toledo)

What is Differential Scanning Calorimetry?

Differential scanning calorimetry (DSC) is the most frequently used thermal analysis technique. DSC measures enthalpy changes in samples due to changes in their physical and chemical properties as a function of temperature or time.

- Onset temperature
- Heat of reaction, ΔHR
- Specific heat capacity,
- Adiabatic temperature rise, ΔTad
- Latent heats of melting or evaporation
- Melting point or boiling point







➤ EasyMax (Mettler Toledo)

- Develop & optimize new synthesis routes
- Increase speed of development & reduce cost.
- Perform thermal evaluations with HFCal Starter Kit.



>RSD (Thermal Hazard Tech)

- Thermal stability
- Order of the reaction
- Rate of temperature rise, dT/dt
- Gas evolutions rate, dP/dt
- Max. temperature and max pressure
- Weight loss during decomposition

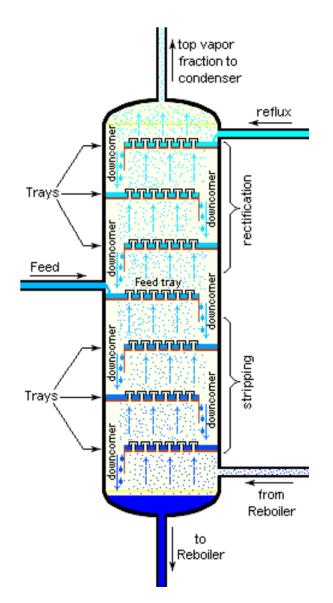






Distillation Capabilities

- Kingchem has over 50 distillation columns
- Every workshop is equipped with expansive distillation columns each having a minimum of 10 theoretical plates
- Rectification columns use either corrugated gauze / SS or ceramic corrugated structured packing
- Max temperatures of 150-200°C
- Kingchem has 6300L*5 columns, each vertically packed with 8m of ceramic corrugated structured packing, giving a total of 30 theoretical plates per column



Liaoning Fuxin Chemical Industrial Park



• Established in 2008

- Province chose fluorochemical industry to replace coal mining
- This park has been certified as a provincial level of industrial park since 2012
- 25 km away from downtown Fuxin
- Currently occupies 7 sq km and is planned to cover 20 sq km
- 42 companies in this park and more than 20 companies of that have started the production or trial production, the other companies are under construction
- Kingchem is the seed of Fuxin Chemical Industrial Park and it's the oldest and largest company in terms of area, employees, sales revenue up to this date.

辽宁省人民政府

过效(2012)203 号

辽宁省人民政府关于同意阜蒙县氟化工产业 基地晋升为省级经济开发区的批复

阜新市人民政府。

你市《关于梅阜蒙县氟化工产业基地晋升为省银开发区的请示》(阜政[2012]18号)收悉。现批复如下。

一、同意特專蒙县氟化工产业基地晋升为省级经济开发区,并 更名为辽宁阜新氟产业开发区。开发区规划总面积为20平方公 里,囚至范围为;北至阜锅公路,南至二道河子村,西至伊玛图镇庄 家店村,东至伊玛图河。

二、你市要加强对辽宁阜新氟产业开发区的领导和管理,城市

8 -

总体规划和土地使用严格扶行国家有关规定,做好开发区规划与 + 始利用总体规划的衔接。

三、辽宁阜新氟产业开发区要积极提高开放水平,大力加强招 剪工作,完善体制机制,增强创新能力,充分发挥辐射、示范和带动 作用。



Liaoning Fuxin Chemical Industrial Park



- Over 70 km of roads in industrial park
- High speed train is going through Fuxin
- Two level wastewater treatment (individual company & the park)
- Water purification plant produces 50,000 MTs per day
- 2 power substations, double loop power supply transformer with a capacity of 330,000 KVA. An additional 3 substations (totaling another 240,000KVA) are planned
- Total steam capacity in operation is 620 MW (steam capacity: 70mts/h)







Liaoning Fuxin Chemical Industrial Park



- 1 fire squadron in park
 - 4 fire fighting trucks
 - 1 dry powder truck (4 MT)
 - 1 water truck (5.5 MT)
 - 2 foam trucks (2 MT each)
- Only 15 minutes from the nearest hospital
- Industrial park is well networked with China Unicom, China Mobile and China Telecom















- Park wastewater treatment plant capacity is 15,000 MT/day.
- This park's wastewater treatment plant is operated by Guangdong Yeanovo E.P. Co., Ltd, the well-known environmental treatment company in China.
- The park will continue to invest in upgrading existing facilities. A second wastewater treatment plant (capacity: 35,000 MT/day) is being planned for treatment of industrial wastewater.

