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Isolator Gloves

Innovation for Safety, Quality for the Future

Kingsure Bio-tech(Shanghai) Co.,Ltd



Company Overview

Kingsure Bio-tech Co., Ltd. specializes in advanced rubber materials and high-end personal protective equipment (PPE). With more than 30 years of experience in rubber product manufacturing, the company has continuously strengthened its expertise in the field of rubber gloves. We currently employ approximately 200 people, including a dedicated technical research and development team of 50 professionals.

Backed by strong R&D capabilities, our company collaborates closely with leading universities, research institutions, and academic experts to advance industry - academia cooperation and drive continuous innovation in materials, manufacturing processes, and product performance.

Following more than ten years of continuous investment in research and development, the company has mastered internationally leading one-piece injection molding technology and successfully achieved large-scale production. This technology has transformed the labor-intensive manufacturing model that has been used in the rubber glove industry for more than a century. It significantly improves production automation while enhancing product quality, consistency, and reliability. At the same time, the production process is more environmentally friendly, helping to conserve energy and reduce carbon emissions.

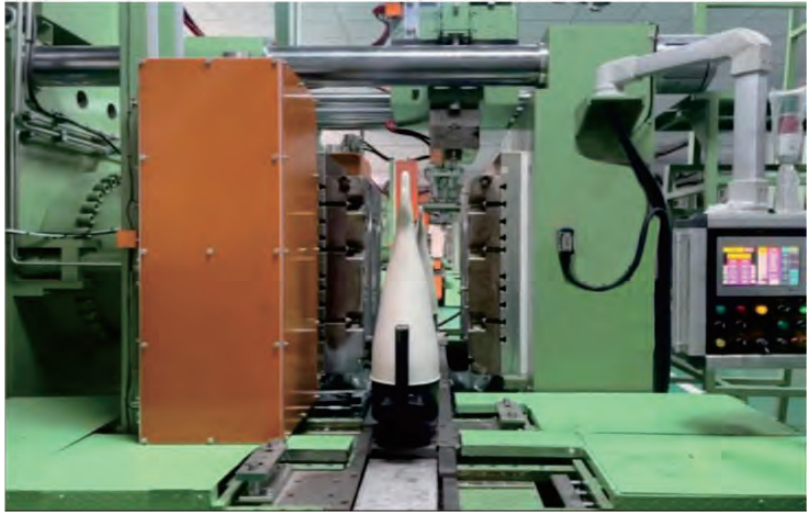
The company's core products, including drybox gloves and glovebox gloves, are widely used in the pharmaceutical, electronics, and other industries throughout China. In international markets, we have established partnerships with customers in the United States, Germany, France, Italy, and other countries, with our products exported to numerous countries and regions worldwide.

Patents and Technological Achievements

The company currently holds four invention patents, 22 utility model patents, and two design patents, demonstrating its outstanding technological innovation capabilities.

Guided by the core principle of "Innovation for Safety, Quality for the Future," the company continuously drives product advancement through technological innovation, builds market trust through rigorous quality control, and meets customer requirements through professional services. We are committed to becoming a global benchmark enterprise in the rubber protective equipment industry.















Domestic Qualification Certificates







International Qualification Certificates







1 International Invention Patent

4 Domestic Invention Patents

More than 40 Utility Model Patents
















NOA


NOA


EU TYPE




SGS


Costco




Patent









Manufacturing Process of Kingsure Gloves

Traditional dipped–glove manufacturing generally requires rubber to be dissolved in chemical solvents to form a rubber compound, followed by mold dipping, drying, and other forming processes. Organic solvents such as toluene, ethyl acetate, and methyl ethyl ketone (MEK) may be used during the compounding, dipping, and drying stages.



These solvents are volatile, flammable, and potentially explosive. They are also classified as volatile organic compounds (VOCs), and their evaporation may pose risks to operator health, production safety, and the surrounding environment. Even when treatment methods such as condensation and adsorption are applied, emissions and secondary waste–treatment challenges cannot be completely eliminated.



Through continuous process innovation, our R&D team has developed an injection–molding process for drybox gloves. By replacing the traditional dipping and solvent–based rubber–compounding route with injection molding, the process no longer relies on large quantities of chemical solvents to prepare rubber compounds. This reduces the risk of VOC emissions at the source while improving the safety, environmental performance, and sustainability of the manufacturing process.

Comparison Item	Traditional Dipping Process	Drybox Glove Injection-Molding Process
Forming Method	Molds are immersed in a rubber compound and dipped repeatedly to build up the glove structure.	Rubber material is injected into a dedicated mold and formed in one piece.
Raw Material Preparation	Large quantities of chemical solvents are required to dissolve the rubber and prepare the dipping compound.	Conventional rubber stock is used, eliminating the need for large quantities of solvents to prepare a dipping compound.
Production Environment	Open dipping tanks are used, making solvents prone to evaporation.	Mold–based and equipment–controlled production provides a more controlled manufacturing process.
Environmental Performance	Greater pressure to control and reduce VOC emissions.	Reduces the generation of VOCs at the source.
Safety Risks	Solvents are flammable and potentially explosive, creating safety hazards.	Reduces solvent evaporation during production and provides a higher level of operational safety.
Quality Consistency	Product quality is significantly affected by compound condition, the number of dipping cycles, and environmental conditions.	Forming parameters are more precisely controlled, providing improved batch–to–batch consistency.
Process Development Trend	A conventional process associated with high environmental treatment and compliance costs.	Supports green manufacturing and is well suited to large–scale production upgrades.

Kingsure's Commitment to Safety & Quality

At Kingsure, quality is far more than a standard — it is our promise. We implement rigorous quality control systems at every production stage to deliver reliable and consistent products.

01 Raw Material Control

Key performance indicator testing shall be carried out on incoming raw materials, covering solid content, viscosity, fineness, film tensile strength and elongation at break.

02 Visual Inspection

Full visual inspection is performed on all products to ensure clean, uniform surfaces free from any blemishes or defects.

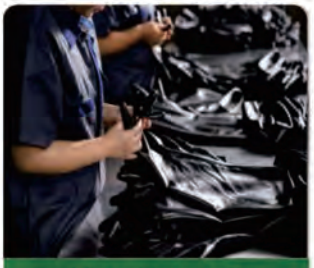
03 Laboratory Testing

The company boasts a professional R&D team and an established R&D center, where a full range of comprehensive tests are carried out under laboratory conditions to verify the technical specifications and service reliability of products.

04 Physical & Chemical Testing

Physical and chemical performance tests shall be conducted in accordance with European standards for personal protective equipment.

Test Item


Visual inspection


Length Check


Weight measure


Beading check


Thickness check


Integrity test


Marking & Packing


Mechanical test


Mechanical test


Chemical test

European Standards For Personal Protective Equipment

CE CATEGORY

European Regulation 2016/425

CE

RISK CATEGORIES OF PPE

CAT.I	Minimal risks
CAT. II	The risks other than those listed in Categories I and III
CAT.III	The risks that may cause very serious consequences such as death or irreversible damage to health relating to the following

EN 388: 2016+A1: 2018



EN 388 Protective gloves against mechanical risks

A protective glove against mechanical risks shall have performance level of 1 or above for at least one of the properties (abrasion, blade cut, tear and puncture) or at least level A of the EN ISO 13997:1999 TDM cut resistance test; classified according to the minimum requirements for each level.

EN ISO 374-5: 2016



Protection against microorganisms

The markings on packing will indicate whether gloves protect against bacteria and fungi only, or against bacteria, fungi and viruses.
The biohazard pictogram is used to mark gloves protecting from bacteria and fungi.
The pictogram will be accompanied by the word 'VIRUS' if the glove meets the requirements of the virus test method

EN ISO 21420



General requirement (hazardous substances, pH, etc.æx

Comfort (Size, dexterity, etc.)
Marking(package marking, manufacturer information, storage, washing, maintenance)

EN 16350



Standard for electrostatic properties of protective gloves used in ATEX area.

European Standards For Personal Protective Equipment

EN ISO 374-1: 2016

Standard for protective gloves against dangerous chemicals



The standard defines the requirements for the capability of gloves to protect the user against penetration, permeation and degradation by chemicals an microorganisms.

Type of gloves	Requirement	Marking
Type A	Penetration resistance (EN 374-2) Breakthrough time **⩾ 30 min** for at least 6 chemicals in the new list (EN16523-1)	EN374-1/Type A  AJKLPR
Type B	Penetration resistance (EN374-2) Breakthrough time ⩾30 min for at least **3** chemicals in the new list (EN16523-1)	EN374-1/Type B  JKL
Type C	Penetration resistance (EN374-2) Breakthrough time ⩾10 min for at least 1 chemicals in the new list (EN16523-1)	EN374-1/Type C 

Penetration Level	Breakthrough time (min)
1	> 10
2	> 30
3	> 60
4	> 120
5	> 240
6	> 480

List of hazardous compounds			
Code	Chemical	CAS Number	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	Sulphur containing organic compound
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound
I	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-82-5	Saturated hydrocarbon
K	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96 %	7664-93-9	Inorganic mineral acid, oxidizing
M	Nitric acid 65%	7697-37-2	Inorganic mineral acid, oxidizing
N	Acetic acid 99%	64-19-7	Organic acid
O	Ammonium hydroxide 25%	1336-21-6	Organic base
P	Hydrogen peroxide 30%	7722-84-1	Peroxide
S	Hydrofluoric acid 40%	7664-39-3	Inorganic mineral acid
T	Formaldehyde 37%	50-00-0	Aldehyde

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Isolator Glove Order Reference

Company Name	Size	Material	Color	Material Thickness	Length	Hand Size
KS	– 10	E	B	16	32	/ 9A
KingSure	7	E EPDM (E)	Black (B)	16 mil	32” 800mm	9inch ambidextrous
	8	C CSM (C)	White(W)			
	9	B Butyl (B)				
	10					

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ISOLATOR GLOVES



MATERIAL	BUTYL	CSM	EPDM
Symbol	B	C	E
Port Size	7" 8" 9" 10"	7" 8" 9" 10"	7" 8" 9" 10"
Thickness	15mil (0.40mm) 24mil (0.60mm) 30mil (0.80mm)	15mil (0.40mm) 24mil (0.60mm) 30mil (0.80mm) 39mil (1.0mm)	15mil (0.40mm) 24mil (0.60mm) 30mil (0.80mm)
Length	32inch (800mm)	32inch (800mm)	32inch (800mm)
Hand form and Size A-Ambidextrous S-Anatomical	9-A	9-A	9-A
Color Options	Black	White	Black / White
Beading	> 4mm	> 5mm	> 5mm
Temp. Limits	–50°C~140°C	–35°C~120°C	–50°C~135°C
Shelf Life	5 years	5 years	5 years

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KS 5000 EPDM Isolator Gloves



The KS 5000 Series EPDM isolator gloves are specifically designed for use in controlled environments. Combining durable protection with excellent operational flexibility, they are engineered to deliver reliable performance during long-term use.

EPDM (ethylene propylene diene monomer rubber) offers excellent resistance to high temperatures, oxidation, ozone, and a wide range of chemicals. Benefiting from these material properties, the KS 5000 Series is well suited for pharmaceutical manufacturing, cleanrooms, laboratories, and other applications requiring strict contamination control and consistent reliability.

EN 374 AKLMCNOT

EN 388 3111X

EN 374 VIRUS

CE 0598

FDA

- A 1,000–ton integrated injection molding process enables localized reinforcement of wear–prone areas, significantly improving rubber density and extending service life.
- Excellent resistance to sterilizing agents such as hydrogen peroxide and peracetic acid, as well as radiation sterilization methods including gamma irradiation.
- Capable of withstanding up to 150 autoclave sterilization cycles.
- Resistant to strong acids, strong alkalis, strong oxidizing agents, and solvents including alcohols, ketones, and esters.
- Suitable for use within a temperature range of −50° C to 135° C.
- Complies with the requirements of FDA 21 CFR 177.2600.

Applications

- Primarily used in aseptic isolators and gloveboxes within the pharmaceutical, chemical, nuclear, and new energy industries, providing operators with a clean and reliable safety barrier that offers excellent resistance to highly corrosive substances and high–temperature sterilization.

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KS 2000 CSM Isolator Gloves



The KS 2000 Series CSM glovebox gloves are manufactured from high-performance CSM (Hypalon) material and are specifically designed for demanding controlled environments. They provide stable and reliable protection under challenging conditions involving oxidation, ultraviolet radiation, ozone, high temperatures, and highly corrosive chemicals.

CSM offers excellent resistance to a wide range of chemical substances, including oxidizing agents, concentrated acids such as nitric acid and hydrochloric acid, ammonia, alkalis, and alcohols. The gloves are highly compatible with commonly used sterilization processes, including VHP (vaporized hydrogen peroxide) sterilization and ozone sterilization. They are well suited for pharmaceutical manufacturing, aseptic isolation systems, and other applications requiring stringent contamination control.

EN 374	EN 388	EN 374		
AKLMCNOT	4111X	VIRUS	CE 0598	FDA

- A 1,000-ton integrated injection molding process enables localized reinforcement of wear-prone areas, significantly improving rubber density and extending service life.
- Combines excellent chemical resistance with reliable mechanical protection.
- Good resistance to non-polar solvents, aliphatic hydrocarbons, and various oils and greases, including mineral oils, vegetable oils, and animal fats.
- Capable of withstanding up to 60 autoclave sterilization cycles.
- Suitable for use within a temperature range of −35°C to 120°C.
- Complies with the requirements of FDA 21 CFR 177.2600.

Applications

- Petrochemical and Oil & Gas Industries: Handling petroleum products, oils, greases, and other hydrocarbon–based media.
- Highly Corrosive Chemical Processing: Applications involving strong acids, strong alkalis, strong oxidizing agents, acid pickling, and electroplating.
- Outdoor Corrosion Protection and Heavy Equipment: Long–term outdoor protection requiring excellent ozone and weather resistance.
- Biopharmaceutical Industry: Aseptic workshops, isolators, drybox systems, and clean laboratories.
- Nuclear Industry: Drybox and isolator operations, as well as tasks requiring supplementary radiation protection.
- Machinery Manufacturing and Equipment Maintenance: Operations involving lubricating oils, hydraulic fluids, and corrosion–resistant coatings.

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KS 1000 Butyl Rubber Glovebox Gloves



The KS 1000 Series butyl rubber glovebox gloves are manufactured from high-performance butyl rubber and are specifically designed for controlled environments requiring a high level of chemical protection and exceptional barrier performance.

Butyl rubber offers excellent resistance to a wide range of solvents and oxygen-containing compounds, effectively reducing the risk of material degradation caused by chemical exposure. It also retains good flexibility at low temperatures, providing both long-term durability and operational dexterity. The optimized KS 1000 solvent-resistant formulation further enhances the material's barrier properties, providing a more reliable solution for demanding chemical and gas-protection applications. It is particularly suitable for critical operating conditions requiring a high degree of airtightness, safety, and performance stability.

ISO 374-1 Type A
AKLMOP

EN 388:2016
3111

EN 374-5
VIRUS

CE
0598

EN ISO 21420

- A 1,000-ton integrated injection molding process enables localized reinforcement of wear-prone areas, significantly improving rubber density and extending service life.
- Excellent chemical and oil resistance.
- Exceptional resistance to gas permeation.
- Good resistance to ozone and ultraviolet radiation.
- Suitable for use within a temperature range of −50°C to 140°C.

Applications

- KS 1000 butyl rubber drybox gloves are designed for operations in high-risk environments, including the pharmaceutical and nuclear industries. Their key advantages include highly effective protection against halogen gases, such as iodine and radioactive iodine, as well as an extremely low water-vapor transmission rate.
- They are primarily used in nuclear fuel reprocessing, radioactive-material handling, and specialized chemical operations where exceptional gas impermeability, moisture-vapor resistance, and chemical protection are required.

Butyl Chemical Resistant Gloves

Model

RX-9I2013/9A



Material

Butyl Rubber (IIR)

Applicable Standard

GB/T 17622-2008

Applications

Excellent airtightness, protection against toxic gases, and low-temperature resistance. Suitable for military chemical protection, the nuclear industry, and fine chemical processing.

Product Features

- A 1,000-ton integrated injection molding process enables localized reinforcement of wear-prone areas, significantly improving rubber density and extending service life.
- Excellent resistance to gas permeation.
- Outstanding chemical stability and oil resistance.
- Resistant to strong acids, strong alkalis, strong oxidizing agents, and solvents including alcohols, ketones, and esters.
- Excellent ozone resistance.
- Suitable for use within a temperature range of −50°C to 140°C.
- Easy to put on, highly flexible, and comfortable to wear without restricting hand movement.

Basic Specifications

Base Material	Butyl Rubber (IIR)	Cuff Style	One-Piece Molded Cuff
Color	Black	Autoclave Cycles	30 cycles at 121°C for 30 minutes
Surface Finish	Smooth Surface		
Country of Origin	China	Class	Class 0 and Class 00
Packaging	1, 2, or 4 pairs per box	Main Protection Applications	Acids, alkalis, ketones, gas leakage prevention, and resistance to small-molecule permeation

EPDM Chemical Resistant Gloves



Model

RX-9E2013/9A

Material

EPDM (Ethylene Propylene Diene Monomer Rubber)

Applicable Standard

GB/T 17622-2008

Applications

Resistant to strong acids, strong alkalis, and high temperatures. Suitable for chemical processing, electroplating, laboratory operations, and similar applications.

Product Features

- A 1,000-ton integrated injection molding process enables localized reinforcement of wear-prone areas, significantly improving rubber density and extending service life.
- EPDM rubber features hydrophobic properties and excellent chemical stability.
- Excellent chemical stability and outstanding resistance to organic media.
- Resistant to strong acids, strong alkalis, strong oxidizing agents, and solvents including alcohols, ketones, and esters.
- Excellent ozone and weather resistance.
- Suitable for use within a temperature range of -50°C to 135°C.
- Resistant to high and low temperatures, ozone, and ultraviolet radiation, providing stable long-term performance.
- Passed FDA testing.
- Easy to put on, highly flexible, and comfortable to wear without restricting hand movement.

Basic Specifications

Base Material	EPDM	Cuff Style	One-Piece Molded Cuff
Color	Full-body white or black available	Autoclave Cycles	150 cycles at 121°C for 30 minutes
Surface Finish	Smooth Surface		
Country of Origin	China	Class	Class 0 and Class 00
Packaging	1, 2, or 4 pairs per box	Main Protection Applications	Acids, alkalis, ketones, gas leakage prevention, and resistance to small-molecule permeation

CSM Chemical Resistant Gloves

Model

RX–9C2013/9A



Material

Chlorosulfonated Polyethylene or Hypalon (CSM)

Applicable Standard

GB/T 17622–2008

Applications

Resistant to strong oxidizing acids and oils. Suitable for petrochemical plants, oil depots,steel pickling, and similar applications.

Product Features

- A 1,000–ton integrated injection molding process enables localized reinforcement of wear–prone areas, significantly improving rubber density and extending service life.
- Excellent resistance to strong oxidizing acids, including fuming sulfuric acid, concentrated nitric acid, and chromic acid.
- Outstanding resistance to oils and fuels, making the gloves suitable for petrochemical operations and oil depots.
- Excellent weather and ozone–aging resistance, suitable for prolonged outdoor exposure.
- Good resistance to acids and alkalis, enabling use in environments containing mixtures of different chemicals.
- Suitable for use within a temperature range of −30° C to 120°C.
- Formulated with antistatic materials for use in dust–free environments.
- Easy to put on, highly flexible, and comfortable to wear without restricting hand movement.

Basic Specifications

Base Material	Chlorosulfonated Polyethylene (CSM)	Cuff Style	One-Piece Molded Cuff
Color	Black	Autoclave Cycles	30 cycles at 121°C for 30 minutes
Surface Finish	Smooth Surface		
Country of Origin	China	Class	Class 0 and Class 00
Packaging	1, 2, or 4 pairs per box	Main Protection Applications	Acids, alkalis, ketones, gas-leak prevention, and resistance to small-molecule permeation

Glove Port Flange

Oval-Shaped glove retaining Flange Ring and Cover

Model	Material	Hole: Length x Width(mm)	Remark	Photo
7–inch	POM/UPE Nylon	Oval Dimension 212*172	Customized	
8–inch	POM/UPE Nylon	Oval Dimension 252*172		
10–inch	POM/UPE Nylon	Oval Dimension 322*222		
7–inch	POM/UPE Nylon	Oval Dimension 212*172	Customized	
8–inch	POM/UPE Nylon	Oval Dimension 252*172		
10–inch	POM/UPE Nylon	Oval Dimension 322*222		



Round Shape Glove Retaining Flange Ring

Model	Material	Hole: Length x Width(mm)	Remark	Photo
7–inch	POM/UPE Nylon	ϕ 192	Customized	
8–inch	POM/UPE Nylon	ϕ 192		
10–inch	POM/UPE Nylon	ϕ 280		



Our customers



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