

Protective hood series



Spolek™-K2020

▼ Product Feature

- Made of polyethylene fabric, lightweight, high-strength, and tearing resistance. High air permeability effectively improves the wearer's comfort. Ultra-low flocks, anti-static treatment
- There is a head hoop inside which offers better fixture, the head hoop size can be free adjusted.
- PVC perspective window, which effectively prevent fog and various chemical liquids.
- Four-line sewing, heat sealed seams, effectively blocks solid particles and liquids.
- Wearer move more freely due to free adjusted head hoop inside, which makes hood closer to the wearer's head. The curved mask make the excellent vision.
- Can be used with an electric air supply system.

▼ Product application

- Polishing and painting operations
- Bio-pharmaceutical
- Petrochemical industry
- Industrial cleaning
- Radioactive particle protection in the unclear industry

Colour

White

Packing

1PC/Bag, 10Bag/Carton



Spochem™-K2022

▼ Product Feature

- Made of polyethylene fabric and multi-layer high-performance barrier film. Provide excellent strength and abrasion resistance. High performance barrier film provides excellent protection against a wide range of harmful chemicals
- There is a head hoop inside which offers better fixture, the head hoop size can be free adjusted.
- PVC perspective window, which effectively prevent fog and various chemical liquids.
- Four-line sewing, heat sealed seams, effectively blocks solid particles and liquids.
- Wearer move more freely due to free adjusted head hoop inside, which makes hood closer to the wearer's head. The curved mask make the excellent vision.
- Can be used with an electric air supply system.

▼ Product application

- Industrial cleaning and maintenance
- Clear pollution
- Chemical protection
- Bio-pharmaceutical
- Radioactive particle protection in the unclear industry

Colour

Yellow/Grey

Packing

1PC/Bag, 10Bag/Carton

MEDICAL PROTECTIVE CLOTHING SERIES





TYPE: A

Production record certificate No:

Lüwei Food and Drug Administration
Equipment Production License No. 20200012

Products record certificate No:

Luwei Equipment No. 20200041

Product Technical Requirements No:

Luwei Equipment No. 20200041

Product features:

It is made of non-woven fabric, four-line sewing with elastic cuff and back string.
It is wearing backward, disposable and non-sterile.

Product applications:

The products are used for normal isolation in medical institution and hospital laboratory.



TYPE: B

Production record certificate No:

Lüwei Food and Drug Administration
Equipment Production License No. 20200012

Products record certificate No:

Luwei Equipment No. 20200041

Product Technical Requirements No:

Luwei Equipment No. 20200041

Product features:

It is made of non-woven fabric with four-line sewing, disposable and non-sterile.

Product applications:

The products are used for normal isolation in medical institution and hospital laboratory.



Model	Colour	Size	Packing
Medical Disposable Isolation gown Type A	Blue	Average	100PCS/CTN

Model	Colour	Size	Packing
Medical Disposable Isolation gown Type B	White	S-XXXL	50PCS/CTN



MEDICAL DISPOSABLE PROTECTIVE CLOTHING



TYPE: One piece coverall

Production License No:

Lu Food and Drug Administration Medical
Device Production License No. 20200239

Registration/Technical Requirement No:

Lu Equipment Registered No.20202140979

Products Standards:

GB19082-2009 Medical Disposable Protective
Clothing Technical Requirements

Product features:

It is made of medical microporous breathable
film and non-woven fabric with hot sealed strips
for four-thread seam, which can provide
excellent permeation protection of blood and
blood pathogen. The product has three-piece
hood, butterfly-shape sleeves, cuff thumb ring,
elastic waist, triangle crotch design.

Product applications:

The products can prevent medical staff from
potentially infectious patient's blood, body fluid,
secretion and air solid particles, etc.



MEDICAL ISOLATION BOOT COVER



TYPE:A

Production record certificate No:

Lüwei Food and Drug Administration
Equipment Production License No. 20200012

Products record certificate No:

Luwei Equipment No. 20200217

Product Technical Requirements No:

Luwei Equipment No. 20200217

Product features:

It is made of microporous breathable
film with heat sealed strips offering
sufficient strength and barrier
performance. It is disposable and
non-sterile.

Product applications:

The products can prevent medical staff
from potentially infectious patient's
blood, body fluid, secretion, etc.

TYPE:A

Production record certificate No:

Lüwei Food and Drug Administration
Equipment Production License No. 20200012

Products record certificate No:

Luwei Equipment No. 20200217

Product Technical Requirements No:

Luwei Equipment No. 20200217

Product features:

It is made of microporous breathable
film with heat sealed strips offering
sufficient strength and barrier
performance. It is disposable and
non-sterile.

Product applications:

The products can prevent medical staff
from potentially infectious patient's
blood, body fluid, secretion, etc.

Model	Colour	Size	Packing
Medical Disposable Protective Clothing	White	S-XXXL	50PCS/CTN

Colour	Packing	Colour	Packing
White	1pair/pcs, 100pairs/ctn	White	50pair/pcs, 2pcs/ctn

Instructions for donning and fitting protective clothing and size chart

- Ensure that the size matches the user and do not make any modifications to the product.
- Check if the product has defects and is in good condition (no holes, unsealed parts, etc.).
- Open the zipper and be careful not to tear the fabric when wearing it. Close the zipper and seal the flap. Stick double-sided adhesive tape from the neckline to flap to the protective clothing without folding; If there are solid particles in the air, it is recommended to cover the zipper with tape and seal the cuffs and ankles with tape.
- The protective characteristics are only effective when the clothing is properly worn and closed.
- Protect uncovered parts of the body (hands, breathing areas, feet) by using protective gloves, boots, face shields, and other auxiliary protective clothing (adding tape if necessary) , providing the same level of protection for full body protection.

▼ Follow the step below to put on



1. Choose appropriate protective clothing and read user instructions.



2. Take off your shoes and tie your pants into your socks. Put on the legs of your protective clothing and fix it over your safety shoes.



3. Pull protective clothing towards the arms and shoulders.



4. Pull the zipper halfway, wear a mask (or respirator) and goggles, and put on the hood. Cover the gloves with the sleeves.



5 Pull the zipper of the protective clothing up to the chin and ensure that the hood is tightly fixed to the face, seal the flap with double-sided adhesive tape.



6. Organize protective clothing to ensure its fitting, working and moving freely, and provide best protection.

▼ Follow the step below to take off



1. Open the flap and remove the double-sided adhesive tape.



2. Open the zipper to the waist.



3. Grasp the outside and pull the hood away from the head.



4.Release the first arm and remove the gloves from back.



5.Release the first arm from the protective clothing and gloves, release the second arm and gloves from the inside of the protective clothing, sit down and roll off the contaminated protective clothing from the inside to outside.



6.Extract the leg from the safety shoes. Fold or roll into a bundle and properly dispose of contaminated protective clothing.

▼ Size Chart



Size	Chest	Height
S	120-124cm	160-166cm
M	122-126cm	166-172cm
L	127-131cm	172-178cm
XL	132-136cm	179-185cm
XXL	138-142cm	186-192cm
XXXL	144-148cm	186-192cm



- No matter the clothing size, product performance, structural design, or technological research and development innovation, we will provide you with professional solutions.
- Combining different working environments and process characteristics to ensure the safety of workers while fully enhancing the comfort and flexibility of the product and improving work efficiency.
- Let your requirements meet the ultimate professional service. Konzer is always together with you.

Perspective window series



Reflective strip series



Splits series





01 Product Feature

- Double layer high-quality polypropylene non-woven fabricStronger tear resistance
- Comfortable and durable,economical and practical



02 Product Application

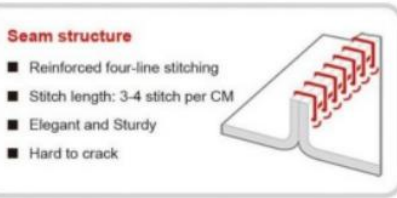
- Husbandry breeding
- Sanitary cleaning
- Food processing
- Bio-pharmaceutical



- Breathability
- Liquid Proof
- Anti Particulate



Performance Index	Testing Standard	Test Result
Flex Cracking Resistance	>1000times/Class 1	Class 1
Breaking strength	Lengthways100N/ Transverse61N	Pass
Puncture resistance	7.0N/Class 1	Class 1
Seam Strength	62N/Class 2	Class 2



Model	Colour	Size	Packing
K500	White/Blue	S-XXXL	50PCS/Carton



01 Product feature

- It is compounded by PE film and high-quality double-layer spunbond non-woven fabric.
- It provides extraordinary protection of liquid spatter and solid particles, and good oil-free effect.
- Three-piece hood, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design.



02 Product application

- Asbestos dust treatment
- Oil cleaning
- Pesticide spraying
- Industrial cleaning and maintenance



Breathability



Liquid Proof



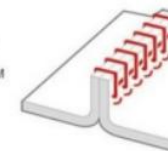
Anti Particulate



Physical property		
Test items	Technical standards	Result
Hydrostatic pressure resistance	≥ class 1 (Hydrostatic pressure > 10kPa)	Class 4
Abrasion resistance	≥ class 1 (Times of cycles to produce damage)	Class 3
Flex cracking resistance	> Class 1 (> 1000 times)	Class 6
Solid particle penetration resistance	The filtration efficiency for non oily particles shall not be less than 70%	Pass
Breaking strength	≥ Class 1(30N)	Class 1
Tear strength	≥ Class 1(10N)	Class 3
High and low temperature resistance	After pretreatment at 70 °C for 8h, the fabric breaking strength should decrease by no more than 30%	Pass
Puncture resistance	≥ Class1 (> 5N)	Class 1
Seam strength	≥ Class1 (> 30N)	Class 2

Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Fabric technology



Model

K1000

Colour

White

Size

S-XXXL

Packing

50PCS/Carton



01 Product feature

- The middle layer of the fabric is made of melt blown polypropylene fibers, effectively improving the protection against solid particles and liquids. The outer double-layer high-quality polypropylene non-woven fabric increases the strength of the fabric, prevents tearing and puncture.
- High breathability avoids the occurrence of thermal stress.
- It is anti-static and passes the EN1149-5 anti-static standard.
- Three pieces hood, butterfly sleeves, cuffs with thumb rings, elastic waist, and triangle crotch design.



02 Product application

- Asbestos dust treatment
- Painting work
- Radioactive particles protection in the nuclear industry
- Pharmaceuticals
- General maintenance and cleaning
- Other ordinary industrial operations



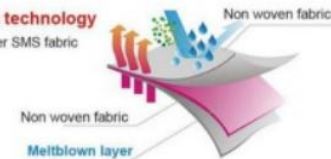
- Breathability
- Liquid Proof
- Anti Particulate



Test on whole suits	Require	Result
Resistance to liquid penetration Spray test: type 6 (EN ISO 17491-4 mat. A - EN 13034)		PASS
Resistance to aerosol penetration Inward leakage type 5 (EN ISO 13962-2 - EN ISO 13962)	Light: ≤ 20% Le: ≤ 10%	PASS
Seams strength (EN ISO 13955-2)	>500 N 300 ≤ N ≤ 500 125 ≤ N ≤ 300 75 ≤ N ≤ 125 50 ≤ N ≤ 75 30 ≤ N ≤ 50	CLASS 3
Tests on fabric	Require	Result
Resistance to penetration to liquid (EN ISO 6530 - EN 13034)	Class 3: < 1%	H ₂ O: 30% class 3
	Class 2: < 5%	NaOH 10% class 3
	Class 1: < 10%	α-olefin: NC
Repellency to liquid (EN ISO 6530 - EN 13034)	class 3: > 90%	H ₂ O: 30% class 2
	class 2: > 80%	NaOH 10% class 3
	class 1: > 60%	α-olefin: NC
Abrasion Resistance (EN 530 - method 2)	10 ≤ x ≤ 100	Class 2
	100 ≤ x ≤ 500	
	500 ≤ x ≤ 1000	
Trapezoidal tear resistance (EN ISO 9073-4)	10 ≤ N ≤ 20	Class 2
	20 ≤ N ≤ 40	
	40 ≤ N ≤ 80	
Tensile strength (EN ISO 13954-1)	80 ≤ N ≤ 100	Class 1
	100 ≤ N ≤ 200	
	200 ≤ N ≤ 500	
Puncture resistance (EN 863 - EN 13034)	5 ≤ N ≤ 10	Class 1
	10 ≤ N ≤ 50	
	50 ≤ N ≤ 100	

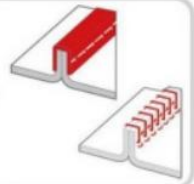
Fabric technology

Multilayer SMS fabric



Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Model

K1500

Colour

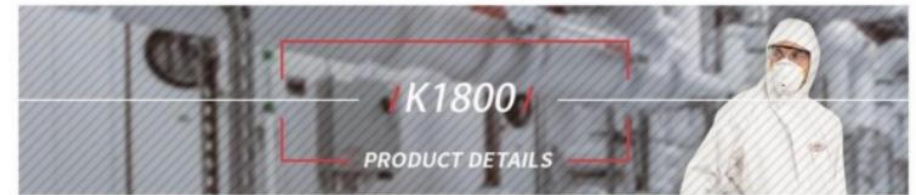
White/Blue

Size

S-XXXL

Packing

50PCS/Carton



01 Product feature

- The outer layer of fabric is microporous breathable film, the inner layer is non-woven fabric. Provides excellent protection against light liquid spatter and solid particles.
- High air permeability and comfortable wearing
- No soft flocks to reduce the fiber pollution
Anti-static property is suitable for painting.
- Three-piece hood, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design



02 Product application

- Painting work,
- Asbestos dust treatment
- Husbandry breeding
- Epidemic prevention
- Radioactive particles protection in the nuclear industry
- Ordinary maintenance and cleaning



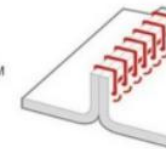
- Breathability
- Liquid Proof
- Anti Particulate



Physical property		
Test item	Test standards	Test result
Tearing strength	≧Class 1 (>10N)	Class 2
Breaking strength	≧Class 1 (>30N)	Class 1
Solid particles penetration resistance	The filtration efficiency for non oily particles not less than 70%	Pass
Hydrostatic pressure resistance	Original	≧Class 1 (Hydrostatic pressure>1.0kPa)
	After abrasion	Hydrostatic pressure should decrease by no more than 50%
Abrasion resistance	≧Class 1 (Times of cycles to produce damage: >10 cycles)	Class 2
Flex cracking resistance	≧Class 1 (Cycle index>1000 times)	Class 6
Seam strength	≧Class 1 (Seam strength>30N)	Class 2
Puncture resistance	≧Class1 (Puncture resistance>5N)	Class1
High and low temperature resistance	After pretreatment at 70 °C for 8h, the fabric breaking strength should decrease by no more than 30%	Pass

Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Fabric technology

Microporous breathable film
Non woven fabric



Model	Colour	Size	Packing
K1800	White	S-XXXL	50PCS/Carton



01 Product feature

- The front is made of microporous breathable film non-woven fabric, and the back is made of SMMS fabric with better breathability, providing excellent protection against slight liquid spatter and solid particles while offering better breathability.
- No flocks reduces fiber pollution, Anti-static properties is suitable for painting.
- Three pieces hood, butterfly sleeves, cuffs with thumb rings, elastic waist, triangle crotch design.



02 Product application



- Painting work
- Asbestos dust treatment
- Epidemic prevention
- Radioactive particles protection in the nuclear industry
- General maintenance and cleaning operations

- Breathability
- Liquid Proof
- Anti Particulate

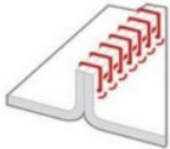


Physical property		
Test items	Test Standards	Result
Hydrostatic pressure resistance	≥ class 1 (Hydrostatic pressure >1.0kPa)	Class 4
abrasion resistance	≥ class 1 (Times of cycles produce damage)	Class 2
Flex cracking resistance	≥ Class 1 (>1000)	Class 6
Solid particle penetration resistance	The filtration efficiency for non oily particles shall not be less than 70%	Pass
Breaking strength	≥ Class 1 (30N)	Class 1
Tear strength	≥ Class 1 (10N)	Class 3
High and low temperature resistance	After pretreatment at 70 ° or - 40 ° for 8h, the fabric breaking strength should decrease by no more than 30%	Pass
Puncture resistance	≥ Class 1 (Puncture resistance > 5N)	Class 1
Seam strength	≥ Class 1 (30N)	Class 3
Moisture permeability (white fabric)	≥ 2500g/(m ² ·d)	>5000g/(m ² ·d)
Moisture permeability (blue fabric)	≥ 2500g/(m ² ·d)	>6000g/(m ² ·d)

PS: The above test items are all tested on the white fabric of the protective clothing except for the moisture permeability item.

Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Fabric technology



Model	Colour	Size	Packing
K1800T	White/Blue	S-XXXL	50PCS/Carton



01 Product feature

- The outer layer is microporous breathable film, the inner layer is double non-woven fabric.
- It can provide extraordinary permeation protection of dust, liquid, blood and blood pathogen.
- High breathable and comfortable wearing, blocking solid particle aerosol and liquid spatter.
- No flocks reduces fiber pollution. Anti-static property is suitable for painting.
- Three-piece hood, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design.

02 Product application

- Epidemic prevention
- Husbandry breeding,
- Painting work,
- Biopharmaceutical,
- Radioactive particles protection in the nuclear industry
- Ordinary maintenance and cleaning work,
- Other general industrial operation.

Breathability

Liquid Proof

Anti Particulate



Physical Performance (EN 14305)		
Test	Test method	Result
Airtight resistance	EN10512M2:2010	Class 1
Pressure resistance	EN10512M2:2010	Class 1
Heat sealing resistance	EN10512M2:2010	Class 1
Heat sealing resistance at 30°C	EN10512M2:2010	Class 1
Tensile strength	EN10512M2:2010	Class 1
Heat resistance (thermal stability)	EN10512M2:2010	Class 1
Seam strength	EN10512M2:2010	Class 1

Physical Performance (EN 1073-2)		
Test	Test method	Result
Airtight resistance	EN10512M2:2010	Class 1
Pressure resistance	EN10512M2:2010	Class 1
Heat sealing resistance	EN10512M2:2010	Class 1
Heat sealing resistance at 30°C	EN10512M2:2010	Class 1
Tensile strength	EN10512M2:2010	Class 1
Heat resistance (thermal stability)	EN10512M2:2010	Class 1
Seam strength	EN10512M2:2010	Class 1

Repeatability By Chemical Results (Type I)		
Chemical	Test method	Result
30% Sulfuric Acid	EN10512M2:2010	Class 1
10% Sodium hydroxide	EN10512M2:2010	Class 1
in fume	EN10512M2:2010	Class 1
in liquid	EN10512M2:2010	Class 1

Resistance To Penetration Of Chemical Results (Type I)		
Chemical	Test method	Result
30% Sulfuric Acid	EN10512M2:2010	Class 1
10% Sodium hydroxide	EN10512M2:2010	Class 1
in fume	EN10512M2:2010	Class 1
in liquid	EN10512M2:2010	Class 1

Classification of resistance to penetration by liquid: Class 1 <10%, Class 2 <5%, Class 3 <1%
Classification is according to EN 14305:2010

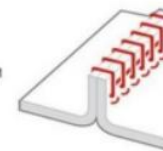
Resistance To Penetration Of Infective Agents		
Test	Test method	Result
Resistance to Penetration to Bacterial Pathogens	EN14305M2:2010	Class 1
Resistance to Penetration to Fungal Pathogens	EN14305M2:2010	Class 1
Resistance to Penetration to Viral Pathogens	EN14305M2:2010	Class 1
Resistance to Penetration to Lipid Aerosol	EN14305M2:2010	Class 1
Resistance to Penetration to Dry Aerosol	EN14305M2:2010	Class 1

Electrostatic properties (EN 1149-5: 2010)		
Test	Test method	Result
Surface resistance	EN 1149-5: 2010	Pass

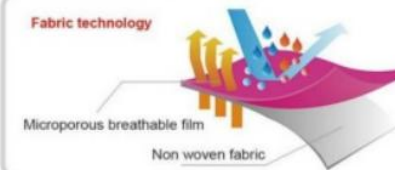
EN 1149-5: 2010 Max 2.0 x 10¹⁰ on at least one surface

Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Fabric technology



Model	Colour	Size	Packing
K2000	White	S-XXXL	50PCS/Carton



01 Product feature

- The outer layer is microporous breathable film, the inner layer is double non-woven fabric.
- It can provide extraordinary permeation protection of dust, liquid, blood and blood pathogen.
- High breathable and comfortable wearing, blocking solid particle aerosol and liquid spatter.
- No flocks reduces fiber pollution. Anti-static property is suitable for painting.
- Three-piece hood, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design.

02 Product application

- Epidemic prevention
- Husbandry breeding,
- Painting work,
- Biopharmaceutical,
- Radioactive particles protection in the nuclear industry
- Ordinary maintenance and cleaning work,
- Other general industrial operation.

Breathability



Liquid Proof



Anti Particulate



Physical Performance (EN 14321)		
Test	Test method	Result
1. Airtight resistance	EN ISO 12947:2015	Class 1
2. Puncture resistance	EN ISO 12947	Class 1
3. Penetration resistance	EN ISO 12947:2015	Class 1
4. Tear strength	EN ISO 12947:2015	Class 1
5. Seam strength	EN ISO 12947:2015	Class 1
6. Tear strength	EN ISO 12947:2015	Class 1
7. Seam strength	EN ISO 12947:2015	Class 1
Physical Performance (EN 1073-2)		
Test	Test method	Result
1. Airtight resistance	EN ISO 12947:2015	Class 1
2. Puncture resistance	EN ISO 12947	No classification
3. Penetration resistance	EN ISO 12947	Class 1
4. Tear strength	EN ISO 12947:2015	Class 1
5. Seam strength	EN ISO 12947:2015	Class 1
Resistance to Chemical Results (Type G)		
Chemical	Test method	Result
1. Hydrochloric Acid	EN ISO 12947:2015	Class 1
2. Sodium Hydroxide	EN ISO 12947:2015	Class 1
3. Acetic Acid	EN ISO 12947:2015	Class 1
4. Isopropyl Alcohol	EN ISO 12947:2015	Class 1
5. Ethanol	EN ISO 12947:2015	Class 1
6. Water	EN ISO 12947:2015	Class 1
7. Steam	EN ISO 12947:2015	Class 1
Resistance to Penetration of Chemical Results (Type G)		
Chemical	Test method	Result
1. Hydrochloric Acid	EN ISO 12947:2015	Class 1
2. Sodium Hydroxide	EN ISO 12947:2015	Class 1
3. Acetic Acid	EN ISO 12947:2015	Class 1
4. Isopropyl Alcohol	EN ISO 12947:2015	Class 1
5. Ethanol	EN ISO 12947:2015	Class 1
6. Water	EN ISO 12947:2015	Class 1
7. Steam	EN ISO 12947:2015	Class 1
Resistance to Penetration of Infective Agents		
Test	Test method	Result
Resistance to Penetration by Bacterial Pathogens: Test method using Phlo 114 Bacteriophage	EN 14328:2015 AC:2004	Class 1
Resistance to Viral Penetration	EN 14328:2015 AC:2004	Class 1
Resistance to Liquid Aerosol Penetration	EN 14328:2015 AC:2004	Class 1
Resistance to Dry Aerosol Penetration	EN 14328:2015 AC:2004	Class 1
Electrostatic properties (EN 1149-5: 2018)		
Test	Test method	Result
Surface resistance	EN 1149-5: 2018	Pass
EN 1149-5: 2018	EN 1149-5: 2018	Pass

Seam structure

- Reinforced four-line stitching.
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Fabric technology

Microporous breathable film
Non woven fabric



Model

K2000B

Colour

White

Size

S-XXXL

Packing

50PCS/Cartron



01 Product feature

- The outer layer is microporous breathable film, the inner layer is double non-woven fabric. It can provide extraordinary permeation protection of dust, liquid, blood and blood pathogen.
- High breathable and comfortable wearing.
- Passed test of EN14126 anti-biological hazard.
- No flocks reduces fiber pollution. Anti-static property is suitable for painting.
- Three-piece hood, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design.



02 Product application

- Biochemical protection,
- Epidemic prevention,
- Painting work,
- Biopharmaceutical,
- Radioactive particles protection in the nuclear industry.



- Breathability
- Liquid Proof
- Anti Particulate



Physical Performance (EN 14126)		
Test	Test method	Result
1. Abrasion resistance	EN ISO 12947-2:2016	Class 3
2. Puncture resistance	EN 963:1995	Class 1
3. Flex cracking resistance	EN ISO 7854:1997, Method B	Class 6
4. Tear strength	EN ISO 7854:1997, Method B	Class 6
5. Tensile strength	EN ISO 13934-1:2010	Class 2
6. Seam strength	EN ISO 9073-4:1997	Class 2
7. Electrostatic properties	EN ISO 15925-2:2014	Class 3
Physical Performance (EN 1073-2)		
Test	Test method	Result
1. Abrasion resistance	EN 935: Method 2	Class 1
2. Puncture resistance	EN 963:1995	No classification
3. Resistance to blocking	EN ISO 9073-4:1997	Class 2
4. Tear resistance	EN ISO 13934-1:2010	Class 3
5. Seam strength	EN ISO 13934-2:2014	Class 3
Resistance to Penetration by Chemicals (Type 4)		
Chemical	Test method	Result
10% NaOH (Fabric)	ISO 6529:2013 Method A	Class 6
10% NaOH (Seam)	ISO 6529:2013 Method A	Class 6
10% H ₂ O ₂ (Fabric)	ISO 6529:2013 Method A	Class 6
10% H ₂ O ₂ (Seam)	ISO 6529:2013 Method A	Class 6
Repellency by Chemical Results (Type 6)		
Chemical	Test method	Result
30% Sulphuric Acid	EN ISO 6530:2005	Class 3
10% Sodium Hydroxide	EN ISO 6530:2005	Class 3
n-Xylene	EN ISO 6530:2005	Class 3
Butan-1-ol	EN ISO 6530:2005	Class 3
Classification of repellency to liquids: Class 1 > 70%, Class 2 > 50%, Class 3 > 30%. Classification is according to EN 14126:2016		
Resistance to Penetration Of Chemical Results (Type 6)		
Chemical	Test method	Result
30% Sulphuric Acid	EN ISO 6530:2005	Class 3
10% Sodium Hydroxide	EN ISO 6530:2005	Class 3
n-Xylene	EN ISO 6530:2005	Class 3
Butan-1-ol	EN ISO 6530:2005	Class 3
Product Whole Suit Test Performance Levels		
Standard	Test method	Result
Type 4: EN 14126:2005+AT:2009	Protective clothing against liquid chemicals	Pass
Type 5: EN ISO 13982-1:2004+AT:2010	Protective clothing against solid particulates	Pass
Type 6: EN 10933:2005+AT:2009	Protective clothing against light spray/splash proof	Pass
Resistance To Penetration Of Infective Agents		
Test	Test method	Result
Resistance to Penetration by Blood-Borne Pathogens	EN 14126:2003+AC:2004	Class 6
Bacteriophage	ISO 18654(2004) procedure D	Class 6
Resistance to Wet Microbial Penetration	EN 14126:2003+AC:2004	Class 6
Resistance to Liquid Aerosol Penetration	EN 14126:2003+AC:2004	Class 3
Resistance to Dry Microbial Penetration	EN 14126:2003+AC:2004	Class 3
Electrostatic properties (EN 1149-5:2018)		
Test	Test method	Result
Surface resistance	EN 1149-1:2006	Pass
EN 1149-5:2018, Max 2.5x10 ¹² ohm at least one surface		

Fabric technology



Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy



Model	Colour	Size	Packing
K3000	White	S-XXXL	50PCS/Carton

protection accessories



K208 Hood



- Disposable hood with the length covering the shoulders and fully elastic around the face to enhanced fitting
- Elastic rubber: Neoprene (latex free)

K210 Apron



- Disposable apron with neck strap and waist strap

K205 Boot cover with sole



- Disposable boot cover, PVC soles, opening with elastic rubber, elastic ankle to tighten for easy moving.
- Elastic rubber: Neoprene (latex free)
- Soles: No slipping PVC

K203 Boot cover



- Disposable boot cover, opening with elastic rubber
- Elastic rubber band: Neoprene (latex free)

K207 Lab coat



- Disposable lab coat with collar, open zipper in front.

K209 Sleevelet



- Disposable sleevelet with fully elastic cuffs.
- Elastic rubber band: Neoprene (latex free)

K202 shoe cover with sole



- Disposable shoe cover, PVC soles, opening with elastic rubber
- Elastic rubber band: Neoprene (latex free)
- Soles: No slipping PVC

K201 Shoe cover



- Disposable shoe cover, opening with elastic rubber
- Elastic rubber band: Neoprene (latex free)



01 Product feature

- The outer layer is HDPE (High Density Polyethylene) film and the inner layer is high-quality non-woven fabric. Fabric material is strong and durable which can protect against various chemicals and solid particles.
- Bright yellow colour is high visible that makes user safer.
- High-efficient chemical hot-melt strips for all seams which prevent workers from the permeation and penetration of chemical liquid.
- Three-piece cap, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design.



02 Product application

- Industrial cleaning and maintenance,
- Pollution cleaning,
- Chemical protection,
- Automobile manufacture,
- Industry of petroleum and natural gas,
- Radioactive particles protection in the nuclear industry,
- Good resistance to penetration of blood and blood pathogens.



- Breathability
- Liquid Proof
- Anti Particulate



Physical Performance (EN 14305)		
Test	Test method	Result
1. Abrasion resistance	EN ISO 12947-2:2008	Class 3
2. Puncture resistance	EN ISO 13005	Class 2
3. Flame spreading resistance	EN ISO 1684-1:2007, Method B	Class B
Flame spreading resistance at -30°C	EN ISO 1684-1:2007, Method B	Class B
4. Tensile strength	EN ISO 13004-3:2003	Class 2
5. Tear resistance (Straight Seam)	EN ISO 9073-4:2007	Class 3
6. Seam strength	EN ISO 13005-2:2004	Class 4

Physical Performance (EN 13075-2)		
Test	Test method	Result
1. Abrasion resistance	EN ISO 12947-2	Class 5
2. Puncture resistance	EN ISO 13005	Class 2
3. Resistance to stretching	EN 20476	Class 2
4. Tear resistance	EN ISO 9073-4:2007	Class 4
5. Seam strength	EN ISO 13005-2:2004	Class 4

Resistance to Permeation by Chemicals (Type 3 Type 4)		
Chemical	Test method	Result
40% Sodium Hydroxide (Aqueous)	ISO 18283:2013 Method A	Class 6
40% Sodium Hydroxide (Aqueous) Straight Seam	ISO 18283:2013 Method A	Class 6
80% Sulfuric Acid (Aqueous)	ISO 18283:2013 Method A	Class 6
80% Sulfuric Acid (Aqueous) Straight Seam	ISO 18283:2013 Method A	Class 6
80% Nitric Acid (Aqueous)	ISO 18283:2013 Method A	Class 4
80% Nitric Acid (Aqueous) Straight Seam	ISO 18283:2013 Method A	Class 4
0-Tyrene (Aqueous)	ISO 18283:2013 Method A	No Classification
0-Tyrene (Aqueous) Straight Seam	ISO 18283:2013 Method A	No Classification

Resistance to Penetration by Chemicals (Type 6)		
Chemical	Test method	Result
80% Sulfuric Acid	EN ISO 18283:2013	Class 3
80% Sodium Hydroxide	EN ISO 18283:2013	Class 3
0-Tyrene	EN ISO 18283:2013	Class 3
Butan-1-ol	EN ISO 18283:2013	Class 3

Resistance to Ignition (EN 1073-2:2002)		
Test method	Result	
EN 12744-2:2002 Method 1	Pass	
Requirement: Not continue to burn.		

Resistance to Penetration of Infective Agents		
Test	Test method	Result
Resistance to Penetration by Blood Borne Pathogens: Test method using PHE-K176	EN 14283:2003 AC:2004 ISO 28594:2004, procedure D	Class B
Bacteriophage		

Electrostatic properties (EN 1149-5: 2018)		
Test	Test method	Result
Surface resistance	EN 1149-5: 2018	Pass

EN 1149-5: 2018: Max.25×10¹⁰ Ω on at least one surface

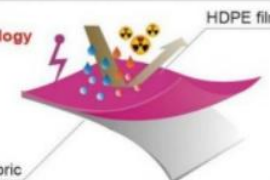
Seam structure

- Reinforced four-line.
- Hot-melt strips.



Fabric technology

Non woven fabric



Model

K4000

Colour

Yellow

Size

S-XXXL

Packing

30PCS/CTN

Chemical Protective Accessories



K408 Hood



- Disposable hood with the length covering the shoulders and fully elastic around the face to enhanced fitting
- Elastic rubber: Neoprene (latex free)

K410 Apron



- Disposable apron with neck strap and waist strap

K405 Boot cover with sole



- Disposable boot cover, PVC sole, opening with elastic rubber, elastic ankle to tighten for easy moving.
- Elastic rubber: Neoprene (latex free)
- Soles: No slipping PVC

K403 Boot cover



- Disposable boot covers, opening with elastic rubber, elastic ankle to tighten for easy moving.
- Elastic rubber: Neoprene (latex free)

K407 Lab coat



- Disposable lab coat with neck strap and waist strap
- Elastic rubber: Neoprene (latex free)

K409 Sleevelets



- Disposable sleevelets with elastic cuffs.
- Elastic rubber: Neoprene (latex free)

K402 shoe cover with sole



- Disposable shoe cover, PVC sole, opening with elastic rubber
- Elastic rubber: Neoprene (latex free)
- Soles: No slipping PVC

K401 Shoe cover



- Disposable shoe cover, opening with elastic rubber
- Elastic rubber : Neoprene (latex free)



01 Product feature

- Made of flash spinning polyethylene fabric, lightweight, high-strength and tear resistance
- High air permeability and comfortable wearing
- No flocks, anti-static treatment, with wide range application
- Three-piece cap, butterfly sleeves, cuff thumb rings, elastic waist, triangle crotch design, four-line sewing.



02 Product application

- Epidemic prevention,
- Polishing and painting work
- Bio-pharmaceutical
- Petrochemical industry
- Industrial cleaning
- Emergency Rescue
- Radioactive particles protection in the nuclear industry



- Breathability
- Liquid Proof
- Anti Particulate



Physical property		
Test item	Test method	Test result
Abrasion Resistance	=Class 1 (>10 times)	Class 6
Puncture Resistance	=Class 1 (>5N)	Class 2
Flex cracking resistance	=Class 1 (>500 times)	Class 6
High temperature resistance	After pretreatment at 70 ℃ for 8h, the fabric breaking strength decrease should by no more than 30%	Pass
Low temperature resistance	After pretreatment at -30 ℃ for 8h, the fabric breaking strength decrease should by no more than 30%	Pass
Tearing strength	=Class 1 (>10N)	Class 1
Limited liquid spatter	Indicates the stain area on the suit formed by the penetrating liquid should be less than 3 times standard stain area	Pass
Seam strength	=Class 1 (>30N)	Class 3
Breaking strength	=Class 1 (>30N)	Class 2
Repellency by liquid results	=Class 1 (Liquid rejection index > 80% Penetration index < 10%)	Pass
Internal leakage rate of solid particles	Low: <=30% Low: <=15%	Pass

Seam structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack

Fabric technology

Polyethylene fabric

Model	Colour	Size	Packing
Spolek™ 1800	White	S-XXXL	50PCS/Carton



Spochem™ 5000

Effective protection against the permeation of various chemicals.



Spochem™ 5000

PRODUCT DETAILS



01 Product feature

- The fabric is made of multi-layer high-performance barrier film and polyethylene fabric, providing excellent physical strength and abrasion resistance, and is not easily punctured.
- High performance barrier film provides excellent protection against a wide range of harmful chemicals.
- The fabric is lightweight and sturdy. It is easy to wear, move, and perform various stretching during work.
- High performance chemical protective heat strips sealed to all seams protect against the permeation and penetration of chemical liquids.
- Double zipper flaps, double layer cuffs, and double layer legs effectively block liquid penetration.



02 Product application

- Chemical treatment
- Oil sludge project
- Disease/epidemic treatment
- Oil treatment/storage tank cleaning
- Sewage purification
- Acid and alkali chemical treatment
- Pesticide spraying
- Industrial cleaning and maintenance
- petrochemical and oil refining applications
- Radioactive particles protection in the nuclear industry



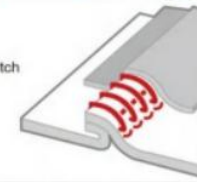
- Breathability
- Liquid Proof
- Anti Particulate



Physical property		
Test items	Test method	Result
Abrasion resistance	≥Class 3(Times of cycles to produce damage: > 500times)	Class 6
Puncture resistance	≥Class 1(Puncture resistance: > 5N)	Class 2
Flex resistance	≥Class 1(Time of cycles > 1000times)	Class 6
High and low temperature resistance	After pretreatment at 70 °C or -40 °C for 8h, the fabric breaking strength decrease should be no more than 30%	Pass
Tear strength	≥Class 1(Tear strength: > 10N)	Class 5
Liquid-tight splashing	The stain area formed by penetrating liquid on the indicator clothing should be less than three times the standard stain area	Pass
Liquid-tight jet	The stain area formed by penetrating liquid on the indicator clothing should be less than three times the standard stain area	Pass
Seam strength	≥Class 1(Seam strength: > 30N)	Class 4
Breaking strength	≥Class 1(Breaking strength: > 30N)	Class 3
Strong descent rate	≤50%	Pass
Penetration time	Class 1: 90s < 120 Class 2: 120s < 240 Class 3: ≥240	Class 3

Seam structure

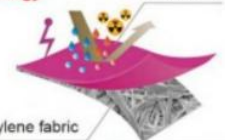
- Reinforced four-line stitch
- Heat sealing strip



Fabric technology

PE barrier film

Polyethylene fabric



Model

Spochem™ 5000

Colour

Grey

Size

S-XXXL

Packing

20PCS/CARTON



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