

WEIFANG KONZER SAFETY

PROTECTIVE EQUIPMENT CO.,LTD

South 500M, West of Intersection of Weian and Nanayuan Road, Angiu, Shandong China.

KONZER 2000

FEATURES

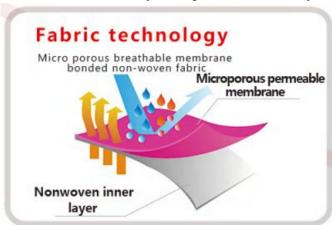
- High permeability, reduce the generation of thermal stress.
- Fully elastic cap, ankle and cuff, maximizes comfort and protection.
- EN14126 biological hazard and infectious agent test was conducted.
- EN 10732,EN-1149-5 passed. Type 5/Type 6

VERSION

Three-piece cap, butterfly sleeves, elastic waist, crotch triangle, four-thread sewing.

APPLICATIONS

Biopharmaceutical, agriculture spraying, automotive industry, chemical treatment, Dust-free room, electronic processing, hazardous substances, painting, printing.



FABRIC

The outer layer is a high-quality multi-pore membrane, and the inner layer is anti-adhesive polypropylene non-woven cloth,

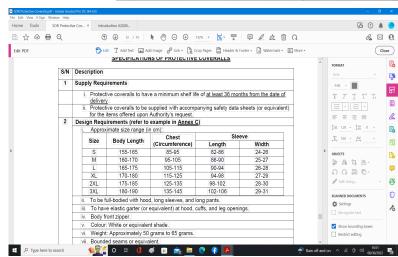
which can provide excellent penetration protection of dust, liquid, blood-borne pathogens



SIZE

SIZE	CHEST (CM)	HEIGHT (CM)
S	61±2	163±3
M	62±2	169±3
L	64.5±2	175±3
XL	67±2	182±3
XXL	70±2	190±3
XXXL	73±2	190±3





Physical Performance (EN 14325)	Physical Performance (EN 14325)						
• Test	Test method	• Result					
Abrasion resistance	• EN ISO 12947-2:2016	• Class 1					
Puncture resistance	• EN 863:1995	• Class 1					
Flex cracking resistance	• EN ISO7854:1997, Method B	• Class 6					
● Flex cracking resistance at -30°C	• EN ISO7854:1997, Method B	• Class 6					
Tensile strength	• EN ISO 13934-1:2013	• Class 1					
Tear resistance (trapezoidal)	• EN ISO 9073-4:1997	• Class 2					
Seam strength	• EN ISO 13935-2:2014	• Class 3					

- Classification of abrasion resistance: Class 1 >10rubs; Class 2 >40rubs; Class 3 >100rubs; Class 4 >400rubs; Class 5 >1000rubs; Class 6 >2000rubs. Hydrostatic head method is used for leak tightness assessment after abrasion.
- Classification of puncture resistance: Class 1 >5N; Class 2 >10N; Class 3 >50N; Class 4 >100N; Class 5 >150N; Class 6 >250N.
- Classification of leak tightness after compression-folding (Schildknecht) flex cracking resistance: Class 1 >500cycles; Class 2 >1250cycles; Class 3 >3000cycles; Class 4 >8000cycles; Class 5 >20000cycles; Class 6 >50000cycles. Hydrostatic head method is used for leak tightness assessment after compression-folding (Schildknecht) flex cracking.
- Classification of leak tightness after compression-folding(Schildknecht) flex cracking resistance at -30°C: Class 1 >100cycles;
 Class 2 >200cycles; Class 3 >500cycles; Class 4 >1000cycles; Class 5 >2000cycles; Class 6 >4000cycles. Hydrostatic head method is used for leak tightness assessment after compression-folding(Schildknecht) flex cracking resistance at -30°C.
- Classification of tensile strength: Class 1 >30N; Class 2 >60N; Class 3 >100N; Class 4 >250N; Class 5 >500N; Class 6 >1000N.
- Classification of trapezoidal tear resistance: Class 1 >10N; Class 2 >20N; Class 3 >40N; Class 4 >60N; Class 5 >100N; Class 6 >150N.
- Classification of seam strength: Class 1 >30N; Class 2 >50N; Class 3 >75N; Class 4 >125N; Class 5 >300N; Class 6 >500N.

• Physical Performance (EN 1073-2)

● Test	Test method	•	Result
1. Abrasion resistance	• EN 530, Method 2	•	Class 1
2. Puncture resistance	• EN 863:1995	•	No classification
3. Resistance to blocking	• EN 25978	•	Class 2
• 4. Tear resistance	• EN ISO 9073-4:1997	•	Class 3
5. Seam strength	• EN ISO 13935-2:2014	•	Class 3

- 1. Classification of abrasion resistance: Class 1 >10rubs; Class 2 >100rubs; Class 3 >500rubs; Class 4 >1000rubs; Class 5 >1500rubs; Class 6 >2000rubs. Visual inspection method is used for leak tightness assessment after abrasion
- 2. Classification of puncture resistance: Class 2 >10N; Class 3 >50N; Class 4 >100N.
- Remark: puncture force is 9N.
- Classification of blocking resistance: Class 1 blocking; Class 2 no blocking.
- 4. Classification of tear resistance: Class 1 > 2N; Class 2 > 10N; Class 3 > 20N; Class 4 > 40N; Class 5 > 80N; Class 6 > 150N.
- 5. Classification of seam strength: Class 1 > 30N; Class 2 > 50N; Class 3 > 75N; Class 4 > 125N; Class 5 > 300N.

• 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
• o-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 >80%; Class 3 >90%.

resistance to renettation of C	hemical Results (Typ	oe 6)			
Chemical			st method		Result
30%Sulphuric Acid		• EN ISO 6530:2005			• Class 3
10%Sodium Hydroxide		• EN ISO 6530:2005			• Class 3
o-Xylene		• EN ISO 6530:2005			Class 3
Butan-1-ol		• EN	I ISO 6530:2005		• Class 3
Classification of resistance to p	enetration by liquids			3<1%	
Classification is according to E	- 1	. Class 1	1070, Class 2 570, Class .	<i>y</i> 170	
Product Whole Suit Test Perfor					
Standard					Result
Type 5: EN ISO 13982-1:2004/	A1:2010				
Protective clothing against solic					• Pass
L _{jmn,82/90} ≤30%; L _{S,8/10} ≤15% Whole suit test methods for typ Particle inward leakage EN ISC					
Type 6: EN 13034:2005+A1:20	009				a D
Protective clothing against light	t spray/splash proof				• Pass
For this suit type, no leakag	_	served on	the dosimeter suit for a	ny of the thr	ee suits tested.
Low level spray test ISO 17491				• Cla	uss 1
Low level spray test ISO 17491 EN 1073-2:2002	-4:2008 method A			• Cla	uss 1
Low level spray test ISO 17491	-4:2008 method A rd Leakage Mean value of i positions in	nside the	kage at the three sampl suit during exercise of	ing Nomi	
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inwar	-4:2008 method A rd Leakage Mean value of i	nside the		ing Nomi	
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inwar Class	rd Leakage Mean value of i positions ir one activity (T	nside the	suit during exercise of all activity (TILa) % 0.2 2	ing Nomi	nal protection fac 500 50
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inward Class 3	rd Leakage Mean value of i positions ir one activity (T 0.3	nside the	suit during exercise of all activity (TILa) % 0.2	ing Nomi	nal protection fa
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inwa Class 3 2 1	rd Leakage Mean value of i positions ir one activity (T 0.3 3 30	nside the	suit during exercise of all activity (TILa) % 0.2 2	ing Nomi	nal protection fac 500 50
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inwar Class 3 2 1 Whole suit test methods for EN	-4:2008 method A rd Leakage Mean value of i positions ir one activity (T 0.3 3 30	nside the	suit during exercise of all activity (TILa) % 0.2 2	ing Nomi	nal protection fac 500 50
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inwar Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISO	-4:2008 method A rd Leakage Mean value of impositions in one activity (T 0.3 3 30) 1073-2:2002 0.13982-2:2004	nside the	suit during exercise of all activity (TILa) % 0.2 2	ing Nomi	nal protection fac 500 50
Low level spray test ISO 17491 EN 1073-2:2002 Requirement: Total Inward Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISO Resistance To Penetration Of Ir	-4:2008 method A rd Leakage Mean value of impositions in one activity (T 0.3 3 30) 1073-2:2002 0.13982-2:2004	nside the	suit during exercise of all activity (TILa) % 0.2 2	ing Nomi	nal protection fac 500 50
Requirement: Total Inward Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Intest	-4:2008 method A rd Leakage Mean value of impositions in one activity (T 0.3 3 30) 1073-2:2002 0.13982-2:2004	mside the : ILE) %	all activity (TILa) % 0.2 2 20 st method	ing Nomi	nal protection fac 500 50 5
Requirement: Total Inward Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Ir Test Resistance to Penetration	rd Leakage Mean value of in positions in one activity (T 0.3 3 30) 1073-2:2002 13982-2:2004 affective Agents	● Te:	all activity (TILa) % 0.2 2 20 st method	ing Nomi	nal protection fac 500 50 5
Requirement: Total Inward Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Ir Test Resistance to Penetration Pathogens- Test method	rd Leakage Mean value of in positions in one activity (Tour 10.3 and 30 and 1073-2:2002 and 13982-2:2004 affective Agents by Blood-Borne	● Te:	all activity (TILa) % 0.2 2 20 st method	ing Nomi	500 50 50 5
Requirement: Total Inward Claps Claps 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Ir Test Resistance to Penetration Pathogens- Test method Bacteriophage	-4:2008 method A rd Leakage Mean value of i positions ii one activity (T 0.3 3 1073-2:2002 0.13982-2:2004 offective Agents by Blood-Borne using Phi-X174	Tell Iso	all activity (TILa) % 0.2 2 20 st method	ing Nomi	Soo Soo Soo Soo Class 6
Requirement: Total Inward Claps Claps 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Ir Test Resistance to Penetration Pathogens- Test method Bacteriophage	-4:2008 method A rd Leakage Mean value of i positions ii one activity (T 0.3 3 1073-2:2002 0.13982-2:2004 offective Agents by Blood-Borne using Phi-X174	Tellor Tellor EN EN EN	all activity (TILa) % 0.2 2 20 st method 114126:2003/AC:2004 D 16604(2004) procedure I	ing Nomi	500 50 50 5
Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Ir Test Resistance to Penetration Pathogens- Test method Bacteriophage Resistance to Wet Microbial Pe	-4:2008 method A rd Leakage Mean value of income activity (Table 2003) 1073-2:2002 13982-2:2004 Infective Agents by Blood-Borne using Phi-X174 metration	Te: IS0 IS0 IS0	suit during exercise of all activity (TILa) % 0.2 2 2 20 20 20 20 20 20 20 20 20 20 20 2	ing Nomi	Soo Soo Soo Soo Soo Class 6 Class 6
Requirement: Total Inward Class 3 2 1 Whole suit test methods for EN Particle inward leakage EN ISC Resistance To Penetration Of Ir Test Resistance to Penetration Pathogens- Test method Bacteriophage	-4:2008 method A rd Leakage Mean value of income activity (Table 2003) 1073-2:2002 13982-2:2004 Infective Agents by Blood-Borne using Phi-X174 metration	Tellor Tellor ILE) % Tellor ISC EN ISC EN EN EN EN EN EN EN EN EN E	suit during exercise of all activity (TILa) % 0.2 2 20 20 20 20 20 20 20 20 20 20 20 20	ing Nomi	Solution factors for the second factor factors for the second factors factors for the second factors for the second factors factors factors for the second fact

• Classification of Resistance to Penetration by Blood-Borne Pathogens (Hydrostatic pressure at which the material passes the test): Class 1 --- 0kPa; Class 2 --- 1.75kPa; Class 3 --- 3.5kPa; Class 4 --- 7kPa; Class 5 --- 14kPa; Class 6 --- 20kPa.

ISO 22612(2005)

Class 3

Resistance to Dry Microbial Penetration

• Classification of Resistance to Wet Microbial Penetration(Breakthrough time, t): Class 1---t≤15min; Class 2--- 15min<t≤

- 30min; Class 3---30min<t≤45min; Class 4--- 45min<t≤60min; Class 5--- 60min <t≤75min; Class 6--- t>75min.
- Classification of Resistance to Liquid Aerosol Penetration(Penetration ratio (log)): Class 1--- 1<log≤3; Class 2--- 3<log≤5;
 Class 3--- log>5.
- Classification of Resistance to Dry Microbial Penetration (Penetration (log cfu)): Class 1--- 2<log cfu≤3; Class 2--- 1<log cfu
 ≤2; Class 3---log cfu≤1.
- Testing & Classification is based on EN 14126: 2003/AC:2004.
- The testing has been performed on the garment material. Seams have not been tested.

•	Electrostatic properties (EN 1149-5: 2018)
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	Electrostatic properties (Erv 1147-3. 2010)				
•	Test	•	Test method	•	Result
•	Surface resistance	•	EN 1149-1: 2006	•	Pass
	7374440 7 2040 37 2 2774400 0				

• EN 1149-5: 2018: Max.2.5 \times 109 Ω on at least one surface

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Supply Requirements

- i. Protective coveralls to have a minimum shelf life of at least 36 months from the date of delivery..
- Protective coveralls to be supplied with accompanying safety data sheets (or equivalent) for the items offered upon Authority's request.

To be full-bodied with hood, long sleeves, and long pants.

To have elastic garter (or equivalent) at hood, cuffs, and leg openings.

Body front zipper.

Colour: White or equivalent shade.

Weight: Approximately 50 grams to 65 grams.

Bounded seams or equivalent.

Material Requirements

- i. To be made from microporous non-woven fabric of polypropylene and polyethylene mix or equivalent which are suitable for more than one hour wear
- ii. To be compliant with all the following protection standards or equivalent:

Packaging Requirements

Each protective coverall shall be adequately protected and individually packed Designated size of protective coverall to be indicated on individual packaging