SAFETY CLOTHING





- Technical Data Information
- Chemical Protective Clothing
- Arc Flash Protective Clothing
- Apron/Mechanics Clothing
- Welding/Heat Protective Clothing
- Arm Protection
- Rain Coats
- Back Support



Technical Data Information

Danger from Chemicals

Absorption Inhalation Ingestion Injection **Dermal Absorption**

Examples of Chemical Substances

- Solids: Lime, Asbestos
- Liquids: Mercury, Hydrochloric Acid
- Gases: Ammonia, Chlorine

Chemical Protective Clothing Selection

1. Design Considerations

Clothing configuration, Components and options, Sizes, Ease of donning and doffing, Clothing construction, Comfort, Accommodation of other selected ensemble equipment, Restriction of mobility, compatibility with other PPE



Level A Type 1

- Highest available level of respiratory, skin and eye protection from solid, liquid and gaseous chemicals. Full-face SCBA
- Ease of Decontamination



Level B Type 1

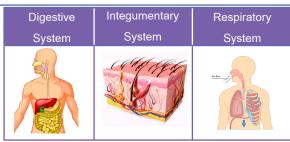
Provides same level of respiratory protection as Level A but less skin protection. Liquid splash protection but no protection against chemical vapors or gases.

- Free movement
- Ease of donning and doffing

Seam Construction



Thermobond



Physiological Classification of Materials

- Irritants
- Sensitizers Allergic
- Asphyxiants exert their effects through a depletion of oxygen to the tissues
- Systemic Poisons the main toxic action includes the production of internal damage
- Carcinogens induces cancer
- Narcotics or Anaesthetics the main toxic action is the depressant effect upon the
- Central Nervous System.
- Teratogens -could generate defects in the fetus of pregnant women

2. Material Chemical Resistance

Ideally, the chosen material (s) must resist permeation, degradation and penetration by the respective chemicals.

· Permeation is the process by which a chemical dissolves in or moves through a material on a molecular basis. In most cases, there will be no visible evidence of chemicals permeating a material.

· Penetration is the movement of chemicals through zippers, seams or imperfections in protective clothing materials

· Degradation involves physical changes in a material as the result of a chemical exposure, use or ambient conditions. The most common observations of material degradation are discoloration, swelling, loss of physical strength or deterioration.

Mixtures of chemicals can be significantly more aggressive towards protective clothing materials than any single chemical alone.

· Sources of information. Guidelines for the Selection of Chemicals Protective Clothing, Quick Selection Guide to Chemical Protective Clothing or Vendor data or recommendations. Simple rating of "poor" "good" or "excellent" give no indication of how the material may perform against various chemicals.

3. Physical Properties

As with chemical resistance, manufacturer materials offer wide ranges of physical qualities in terms of strength, resistance to physical hazards and operation in extreme environmental conditions. Will the material resist tears, punctures, cuts and abrasions?

4. Ease of Decontamination

The degree of difficulty in decontaminating protective clothing may dictate whether disposable or reusable clothing is used or a combination of both.

5. Chemical Protective Clothing Standards

Protective clothing buyers may wish to specify clothing that meets specific standards such as the NFPA standards or EN standards, etc.



Technical Data Information

Gas Tight Suit Selection Guide (Sample)

Details of how many minutes gas tight suit resists chemical penetration:

(G - Gas, L - Liquid, S - Solid)

CHEMICAL NAME	PHYSICAL PHASE	STANDARDIZED BREAKTHROUGH TIME (minutes	
Ammonia	G	79	
Chlorine	G	>480	
Ethylene oxide	G	65	
Formaldehyde (formain solution)	L	>480	
Hydrochloric acid, 37%	L	>480	
Hydrogen fluoride	G	imm	evel
Fuming nitric acid	L	14	Protective Level
Sulfur dioxide	G	38	Prote
Concentrated sulfuric acid	L	>48	

Zone: When Leaking Chemicals

	Zone	Level
Hot zone	Leaking chemicals area	Туре А, В
Warm zone	Decontamination area	Туре В, С
Cold zone	Safety zone (Head office)	Type D



TYPE 1 EN 463-1

Gas tight suits

Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosoles.



TYPE 4 EN 14605 Spray tight suits

Suit which can protect against satureation of liquid chemical, where the volume of the liquid builds up on the suit forming pools, resulting in rivulets. Requires a barrier fabric and sealed seam.



TYPE 6 EN 13034 Reduced spray suits

Suits for protection against light spray and splashes of liquid chemicals where there is no directional spray or build up of liquid on the suit, but there may be a fine mist of droplets in the atmosphere.



ANTI-STATIC EN 1149-5

Electrotatic dossipative protective clothing with a surface resistance of maximum 2.5 x 10 exp 9 ohms.

AGAINT LIMITED FLAME SPRAY PROTECTION



EN ISO 14116 EN ISO 14116 Limited flame spray materials, material assemblies, and clothing.

Your Safety DN

Gas tight Suits Conditions in Chemical Protective

Suit Selection

- Identify, status and effect on the body when chemical is leaking.
- Evaluate the chemical Threshold Limit Values (TLV), Immediately Dangerous to Life or Health (IDLH)
- Chemical resistance factor of Gas Tight Suits
- Physical resistance factor of gastight Suits
- Protective suit level A, B, C, D, or Type 1, 2, 3, 4, 5, 6
- Barrier Zone: Hot zone, Warm zone and Cold Zone



European Gas Tight Suit Standard



TYPE 3 EN 14605

Liquid tight suits

Suits which can protect against strong and directional jets of a liquid chemical such as spray from a burst pipe uncer presure. Requires a barrier fabric and sealed seams.



TYPE 5 EN ISO 13982-1

Dry particle suits

suits for protection against hazardous dry particles. TYPE 5



AGAINST RADIOACTIVE CONTAMATION EN 1073 - 2

EN 1073-2 Protective clothing against particulate radioactive contamination.



AGANIST BIOLOGICAL HAZARDS EN 14126

Protection against biological hazards and infective EN 14126 agentens.



AGAINST PESTICIDES DIN 32781

Suits for protection against pesticides.



Technical Data Information

Levels of Protection

EPA : Environmental Protection Agency



Level A is required when the greatest potential for exposure to hazards exists and when the greatest level of skin, respiratory and eye protection is required. level A protects against all substances of chemical in solid, liquid or gas substances and also connect to SCBA and Air-line



Level B is required under circumstances requiring the highest level of respiratory protection with lesser level of skin protection. At most abandoned outdoor hazardous waste sites, ambient atmospheric vapors or gas levels have not approached sufficiently high concentrations to warrant level A protection. Level B commonly uses to protect against liquid or spreading things and also connect to SCBA and Air-line

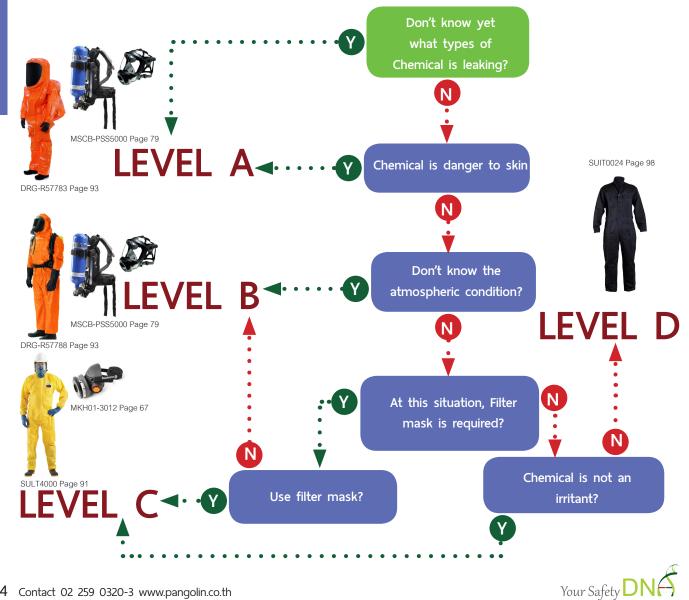


Safety

Level C is required when the concentration and type of airborne substances is known and the criteria for using air purifying respirator is met. There is less directly danger to skin. Under working in this suit, the weather inspection must do often.

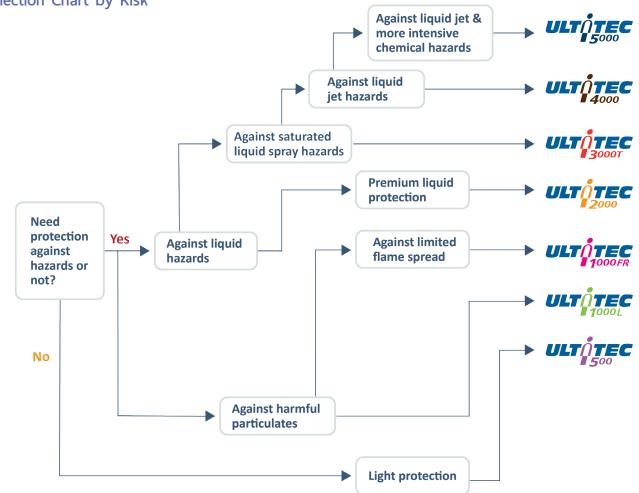
Level D is the minimum protection required. Level D protection may be sufficient when no contaminants are present or work operations preclude splashes, immersion or the potential for unexpected inhalation or contact with hazardous levels of chemicals.

Accidentally Release Chemical: Gas Tight Suit Selection











υιτήτες				•		/ Clothing
Table: Works& Safety Clothing Selection	ULT <u>i</u> <u></u>					
		<u>í</u>	ň	<u> </u>	ń	
			r	 	¥	¥
Agriculture & Farming Asbestos Handling		¥		 	¥	¥
		¥		¥	¥	¥
Biological Hazards Automotive		ň	ń	 	¥	¥
Chemical Handling		¥	¥	¥	¥	¥
Civil Protection	į	î	r	n n n n n n n n n n n n n n n n n n n	т Л	î
Clean Room	Ŷ	Ŷ		 	¥	ı́
Construction	Ő	Ô		 	¥	
Decontamination	Y	Y		<u> </u>	¥	¥
Disease/Disaster Management					¥	î
Decorative Work	ň	ů		ů	¥	r
Electronics	Y	¥			n n	î
Engineering		i		ů l	ů	ů – – – – – – – – – – – – – – – – – – –
Food Processing & Packing	Ő			Ó	Ů	ů –
Gas	/		Ô	-		ů – – – – – – – – – – – – – – – – – – –
Hazardous Material				ļ	į	ļ,
Industrial Clean Up / Maintenance		Ó		Ő	Ô	Ó
Medical / Emergency	Ô	0		Ŏ	<i>0</i>	<u></u>
Metal			ġ		-	į,
Military				į	ġ	0
Mining					-	Ó
Oil Handing / Tank Cleaning				ý	į	Ó
Oil Refining / Exploration				ļ,	ġ	,
Paint Spray				ġ	ġ	0
Petrochemical			ģ			i i
Pharmaceutical						ġ
Printing				ģ	į	ġ
Powder Coating				į	ġ	ġ
Railway			ļ			ġ
Sewage Purification Installation						ļ
Utilities			ģ			ļ
Visitors			ý			į
Waste Management		ġ		į	ģ	į
Welding			ġ			Ó



ULTITEC Coverall Donning Instruction



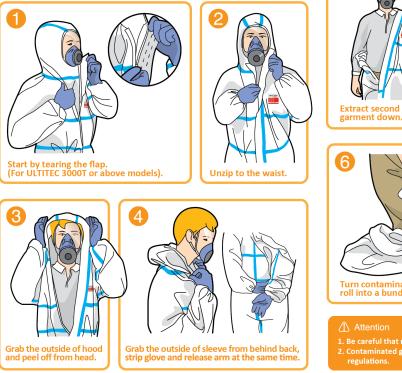








ULTITEC Coverall Doffing Instruction







ULTOTEC

Ultitec Specification



CE STANDARDS FOR PROTECTIVE CLOTHING

Protective coveralls are designed to resist various hazardous situations. EEC guideline 89/686 (2016/425), PPE is divided into 3 categories:

Category I: Basic PPE protects against minimal risks.

Category II: PPE that cannot be clearly classified under Category 1 or 3 is assigned to Category 2.

Category III: PPE of complex design is intended to protect against mortal danger and/or serious and irreversible injury to health

Protective clothing complies with category III, and the requested certification enumerate on the following explanation.



υιτήτες

Safety Clothing

General Features

- Polypropylene material, light with good ventilation
- Weaving by Spunbound and Melt Brown, soft, strong and durable
- The seams are sewn for strength and over sealed with a chemical proof tape to ensure no penetration of liquid.
- Designed elasticated hood, waist& ankles for ease of movement.
- Ample crotch avoids pulling rupture when squatting or crawling.
- Flap zipper for additional prevention against penetration or permeation.



SULT1000LZZXL

Light-protection Coverall

Pangocare 1000L #XL+



1 piece

1 piece/pack

White

ULTOTEC Safety Clothing ULT<u>Õ</u>TEC ULTITEC Dust, Light Liquid Spray Dust & Liquid Splash Resistant Coverall & Flame Retardant Protective Coverall **Breathability Breathability ★★★☆** *** **Liquid Protection Liquid Protection** ★★☆☆☆ ★★☆☆ **Dry Particulate** Dry Particulate

sarety

Features

• Extend the shelf life or your ruesable flame resistance garments

Protection

★★★☆☆

Worn on top of the flame-resistant garments when working, it brings to prolong the usage duration and saves laundry costs.

Durable & breathable

Multilayer SMMS fabric is not only strong and furable, but also soft and breath-able. It brings an effective barrier gainst particulates and low-level liquid spray.

Notes:

According to EN ISO14116 Index 1, the limited flame spread coverall must never be in direct contact with skin. The ULTITEC 1000FR must be always worn on top of index 2 or 3 thermal protective garments and hoods.

Features

•

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The Premium microporous fabric offers an oustanding barrier against wide range of Chemical liquids, blood, body-fluid and infective agents.

Fully meets EN368, ASTM F1670 & EN14126. The performance also exceeds both WHO protective clothing specification option 1 & 2 for Ebola infection control. Protective suits against pesticides

Protection

★★★☆

- Meets DIN 32781 requirement on both protection and comfort in agriculture application.
- Breathable & comfortable

Fabric allows water-vapour transmission, which offers breathability to keep the wearer comfortable.

Low linting

Reduces the risk of fiber contamination to the work environment.





	mindex 1/0/0								
Code	Description	Color	ООМ	Package	Code	Description	Color	UOM	Package
SULT1000FRZZM	Light-protection Coverall Pangocare 1000FR #M+	White	1 piece	1 piece/pack	SULT2000ZZZZS	Light-protection Coverall Pangocare 2000 #S+	White	1 piece	1 piece/pack
SULT1000FRZZL	Light-protection Coverall Pangocare 1000FR #L+	White	1 piece	1 piece/pack	SULT2000ZZZZM	Light-protection Coverall Pangocare 2000 #M+	White	1 piece	1 piece/pack
SULT1000FRZXL	Light-protection Coverall Pangocare 1000FR #XL+	White	1 piece	1 piece/pack	SULT2000ZZZZL	Light-protection Coverall Pangocare 2000 #L+	White	1 piece	1 piece/pack
					SULT2000ZZZXL	Light-protection Coverall	White	1 piece	1 piece/pack





- body-fluid and infective agents. Fully meets EN368, ASTM F1670 & EN14126. The performance also exceeds both WHO protective clothing specification option 1 & 2 for Ebola infection control.
- Protective suits against pesticides
 Meets DIN 32781 requirement on both protection and comfort in agriculture application.
- Breathable & comfortable
 - Fabric allows water-vapour transmission, which offers breathability to keep the wearer comfortable.
- Low linting Reduces the risk of fiber contamination to the work
- environment.
- Sealed seam

All seam are covered by liquid-proof tape to make sure no no seepage.



Excellent protection against wide range of hazards
The special impervious fabricmeets the highest
requirement of EN14126 biolog-ical test. All seams are
sealed by chemical proof tapes, which reaches protection
level type 3 and provides an effective barrier against
directional liquid jets, various chemicals, and biological
hazards.

Sealed design offers optimum protection

Well-designed hood fits respirator perfectly, double layer storm flaps ensure liquid tight seal for the zipper, and the bright yellow fabric offers high visibility. These designs provide excellent protective when working under dangerous and dark environments.

Lightweight & durable

The fabric is lightweight and strong. It provides comfortable wering experiences and allows the wearer to work efficiantly.

			5		X	
Type 3-B	Type 4-B	Type 5-B	EN1149-5	EN1073-2	EN 14126	

Code	Description	Color	UOM	Package	Code	Description	Color	UOM	Package	
SULT3000TZZZS	Light-protection Coverall Pangocare 3000T #S+	White	1 piece	1 piece/pack	SULT4000ZZZZM	Light-protection Coverall Pangocare 4000 #M+	Yellow	1 piece	1 piece/pack	
SULT3000TZZZM	Light-protection Coverall Pangocare 3000T #M+	White	1 piece	1 piece/pack	SULT4000ZZZZL	Light-protection Coverall Pangocare 4000 #L+	Yellow	1 piece	1 piece/pack	
SULT3000TZZZL	Light-protection Coverall Pangocare 3000T #L+	White	1 piece	1 piece/pack	SULT4000ZZZXL	Light-protection Coverall Pangocare 4000 #XL+	Yellow	1 piece	1 piece/pack	
SULT3000TZZXL	Light-protection Coverall Pangocare 3000T #XL+	White	1 piece	1 piece/pack						



Dräger

Type 1 : Gas-tight	Type 1a Compressed air breathing apparatus worn on the inside	SIZE	Height (CMS)
	Type 1b Compressed air breathing apparatus worn on the outside	S	150 - 165
-	Type 1c Breathing air supply through a compressed air hose system	М	160 - 175
Type 2: Not gas-tight	Breathing air supply through a compressed air hose system	L	170 - 185
Type 3: Liquid-proof		XL	180 - 200
Type 4: Spray-proof		2XL	195 - 210
Type 5: Particle protecti	on		
Type 6: Limited spray-p	proof		

Penetration class

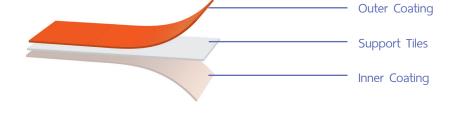
According to standard: DIN, EN ISO 6529 Chemicals and Gas Protective clothing is classified in 6 classes, dependent on penetration period measurement.

Class	Penetration period	Class	Penetration period
1	> 10 minutes	4	> 120 minutes
2	> 30 minutes	5	> 240 minutes
3	> 60 minutes	6	> 480 minutes

Clothing components

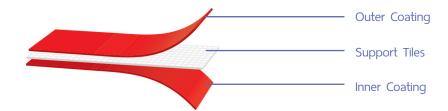
Zytron

- Limited Use Fabric, industrial use
- Flexible, soft and light weight
- Chemicals, bio-gas, and military protection



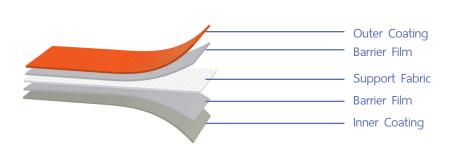
Umex

- Reusable
- Soft, light weight and flexible
- Not fragile to cold temperature



D-mex

- Reusable
- Durable, soft, light weight and flexible
- High protection in Chemicals, bio-gas, and military
- Not fragile to cold temperature
- Flame retardant fabric

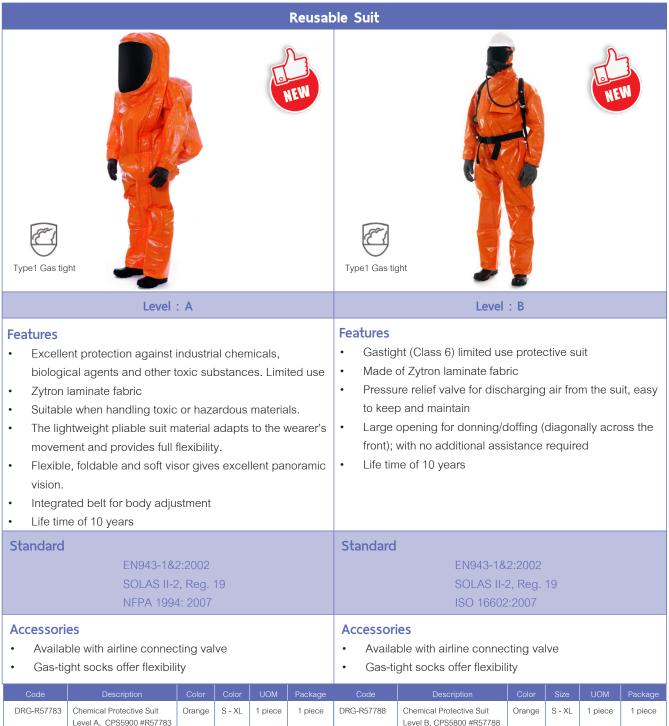




Dräger

Features

- Compatible with self-contained breathing apparatus
- Comfortable even for extended use.
- Tailor-made for use, zip in the suitable position and easy to handle in an emergency
- Double flaps zipper protection, the loop handle of a zip allows the ease at use
- Flash or rubbing resistant, depends on models
- The softest laminate material, each seam has been sewn and then hot-air taped internally and externally. The material and production quality allow for long shelf life.
- Fixed gloves combine butyl outer with laminate inner lining for increased protection against chemicals and punctures
- Additional: Reusable chemical protective boots and limited use gloves
- Design for use with various SCBA equipment
- Various sizes available
- Global and EN standard quality





Safety Clothing

Dräger

Reusal	ble Suit				
$ \\ Fype 1 Gas tight $	Type1 Gas tight				
Level : A	Level : B				
 Features Reusable chemical and gas protective suit : Class 6 U-mex laminated fabric Cold resistant, down to -40°C Indicator belt for body adjustment Bags for accessories Flexible PVC face shield 	 Features Reusable chemical and gas protective suit : Class 6 Umex laminated fabric Cold resistant, down to -30°C Stripe to cover face, sock, and gloves Bag for accessories 				
Standard EN943-1:2002 EN1073-1:1998 & 2002 EN14126:2003 EN14126:2003 EN14593-1:2005 ISO16602:2007 SOLAS II-2, Reg. 19	Standard EN943-1:2002 EN1073-1:1998 & 2002 EN14126:2003 EN14593-1:2005 EN14594:2007 ISO16602:2007 SOLAS II-2, Reg. 19				
 Accessories Separate Control Valve and able to connect to airline Anti-fog visor Viton and Tricotril coated gloves Gas-tight socks offer flexibility Pressure gauge holder to mount gauge within wearer's field of vision. Additional loops for equipment. 	 Accessories Separate Control Valve and able to connect to airline Viton and Tricotril coated gloves Gas-tight socks offer flexibility 				

Code	Description	Color	Size	UOM	Package	Code	Description	Color	Size	UOM	Package
DRG-R29410	Chemical Protective Suit Level A, CPS6900 #R29410	Orange	S - XL	1 piece	1 piece	DRG-R29460	Chemical Protective Suit Level B, CPS6800 #R24960	Orange	S - XL	1 piece	1 piece



Dräger

Safety Clothing

Reusa	ble Suit
Type1 Gas tight	Type 1 Gas tight
Level : A	Level : B
 Features Reusable chemical and gas protective suit : Class 6 Complete protection against hazardous gases, chemical, bacteria, toxic, poison, biological or chemical warfare agents. Cold-proof, down to -80°C Flexible PVC shield, loophole for equipment under shield Fixed gloves combine Viton outer and butyl laminate inner lining for increased protection against chemicals and punctures Protection against mechanical stress and flash fire. Life span of 15 years 	 Features Reusable chemical and gas protective suit : Class 6 D-mex laminated fabric Excellent protection against a broad range of chemicals: Class 6 Cold resistant, down to -30°C Stripe to cover face, sock, and gloves Fixed gloves combine Viton outer and butyl laminate inner lining for increased protection against chemicals and punctures Protection against flash fire. A tear-proof textile
Standard EN943-1&2:2002 EN1073-2 EN14126:2003 BS 8467 SOLAS II-2, Reg. 19 EX-Protection Proof	Standard EN943-1&2:2002 EN1073-1:1998 & 2002 EN14126:2003 EN14593-1:2005 Vfdb 08/01:2006-11 BS 8467 SOLAS II-2, Reg. 19
 Accessories Separate Control Valve and able to connect to airline Anti-fog visor Viton and Tricotril coated gloves Gas-tight socks offer flexibility Additional loops for attaching equipment. 	 Accessories Separate Control Valve and able to connect to airline Viton and Tricotril coated gloves Gas-tight socks offer flexibility Additional loops for equipment

Code	Description	Color	Size	UOM	Package	Code	Description	Color	Size	UOM	Package
DRG-R29500	Chemical Protective Suit Level A, CPS7900 #R29500	Orange	S - XL	1 piece	1 piece	DRG-R29650	Chemical Protective Suit Level B, CPS7800 #R29650	Blue	S - XL	1 piece	1 piece





Arc flash

An Arc is a luminous bridge formed in a gap between two electrodes An Arc Flash occurs during a fault, or short circuit condition, which passes through this arc gap.

The Arc Flash can be initiated through accidental contact, equipment which is underrated for the available short circuit current, contamination or tracking over insulated surfaces,

deterioration or corrosion of equipment and, or parts, as well as other causes.

An Arc Flash event can expel large amounts of deadly energy. The arc causes an ionization of the air, and arc flash temperatures can reach as high as 35,000 degrees Fahrenheit. This is hotter than the surface of the sun.

This kind of temperature can set fire to clothing and severely burn human skin in fractions of a second at a significant distance from the event. The heat can also result in ignition of any nearby combustible materials. Arc Flash temperatures can also liquefy or vaporize metal parts in the vicinity of the event such as copper, aluminum conductors or steel equipment parts. This material rapidly expands in volume as it changes state from a solid to vapor, resulting in explosive pressure and sound waves. The pressure wave can knock workers off balance or off ladders and even throw them across the room against walls or other equipment. The sound blast can causeeardrums to rupture resulting in temporary or permanent hearing loss. Molten metal can be sprayed by the blast throughout the vicinity. Solid metal debris and other loose objects, such as tools, can be turned into deadly projectiles by the explosion. The bright flash from the event can result in temporary or permanent blindness. All of these will most likely result in equipment damage as well as personnel injury, and possibly death.

Fire resistant clothing

Fabric has flame-resistant properties built into the fibers. (no chemical affects for flame) Fabric will never be affected by washing, abrasion, or exposure to heat. So you get a tougher, more durable fabric with a longer lifespan and, ultimately better value.

Flame Retardant Clothing

Fire retardant designed for treatment of fabrics. Fabric will be coated or mixed with fire retardant and forms carbon char, gas or flash when the treated fabric is exposed to fire. Once the carbon char is formed there will be minimal flame propagation, smoke evolution or afterglow. Fabric will be affected by washing or limited use.

ArcShield

Gloves

Wide view and Anti-mist

coated on both sides. A

the glare from arcing.

Green shade helps to reduce

Weaving and knitting testing

Switching Suit ATPV51ca/cm.

and meet standard of

Light weight

Arc Flash Switching Suit

Hood and shield

Hood covers the helmet inside.
 Green shade lens Anti-mist coated visor

Cloth

- High technology polyester material protects heat and flame.
- Fabric touch, neatly stitch, edge and zip covers provide better protection
- Sweat absorber and good ventilation.
- Anti-scratch.

Other qualifications

- Set package: jacket, pants, gloves, and hood.
 Easy and comfortable to wear. Multi-Hazard
 Protection.
- Metal or static free material
- Anti-static: Class HRC4
- Heat resistant: 93.9% and arc flash: 51 Cal/ Cm2 (ATPV)
- Long life time

SUIT0056ZZZZ

CE	ΕN	1	1612	, ASTM	F1506
С)SH	A	1910	. NFPA	70E

Code	Description	UOM	Package
SUIT0056ZZZZ	Arch protective Suit	1 piece	1 piece



Apron



PVC Apron

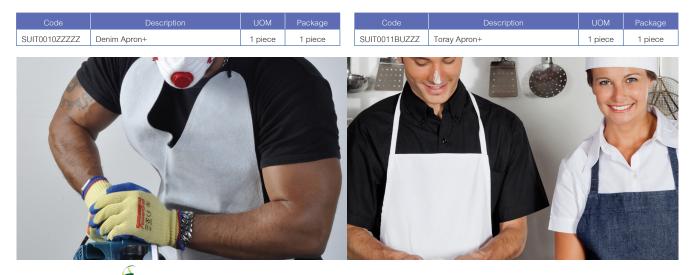
- PVC material, tear resistant
- Prevention from chemicals and liquid splash
- PVC prevents penetration better than other materials



Plastic Apron

- Plastic apron
- Suitable for laundry and cleaning
- Light and comfortable

Code	Description	UOM	Package	Code	Description	UOM	Package			
SUIT0008BUZZZ	PVC Apron+	1 piece	1 piece	SUIT0009ZZZZZ	Plastic Apron+	1 piece	1 piece			
Denim Aproi				Polyester &	Cotton Apron					
Denim ma	aterial protects against dust a		Polyester and cotton material protects against dust and dirt							
Fabric to	Fabric touch				Fabric touch					
Light and	l comfortable			Light and comfortable						





Coverall with Back reflective Band





Welding Coverall

- West point Fabric Several sizes available
- Buttons to adjust size
- Pockets for accessories

Coverall with Back Reflective Band

- Jumpsuit style
- Cotton material
- 2 inch reflective tape at the back
- Various colours and sizes available

Code	Description	Size	Color	UOM	Package	Code	Description	Color	Size	UOM	Package
SUIT0024	Welding coverall +	S-5L	Dark Blue/Orange	1 piece	1 piece	SUIT0026	Coverall +	Dark Blue/Orange	S-4L	1 piece	1 piece



Coverall with long zip

- Jumpsuit style
- Cotton material
- Easy to wear with long zip at front
- Various colours and sizes available

Code	Description	Color	Size	UOM	Package
SUIT0048	Coverall/Zip +	Dark Blue/	S - 4L	1 piece	1 piece
		Orange			





Welding Suit

	claing opin
•	Leather split
	durable
	Heat resista
	Protects aga
	from welding
•	Length 44 in
•	Pockets at fr
•	Free size

Welding Split Leather Suit

- it material,
- ant from welding ainstarc flash g
- nches.
- front



Cow Split Leather Arm Sleeves

- Leather split, durable
- Heat resistant from welding
- Protects againstarc flash from welding
- Length 19 inches
- Fully adjustable •

Code	Description	Size	UOM	Package	Code	Description	Size	UOM	Package
SUIT0003ZZZZZ	Welding suit+	Free Size	1 piece	1 piece	SUIT0031ZZZZZ	Cow split sleeve +	19 inches	1 pair	1 pair

Arm Sleeves



Polyester & Cotton Arm Sleeves

- Tetoron Fabric
- Thick and durable
- Light, comfort and active
- Elastic at the both ends



Denim Arm Sleeves

- Denim material, protect against • dust and dirt
- Fabric touch
- Light and comfortable
- Length: 20.5 inches
- Elastic at the both ends

Code	Description	Color	UOM	Package	Code	Description		UOM	Package
SUIT0040ZZZZZ	Tetoron sleeves+	Blue	1 pair	1 pair	SUIT0035ZZZZZ	Denim Sleeve+	19 in.	1 pair	1 pair



Safety First Cotton Armband

- Cotton materials •
- Fabric touch
- Length: 8 inches

Code	Description	Size	UOM	Package
SUIT0036GRZZZ	Safety armband / Green+	8 in.	1 piece	1 piece
SUIT0036WHZZZ	Safety armband / White+	8 in.	1 piece	1 piece





Raincoat





Blue



Chemical Protective Suit (Two-Piece)

- PVE/PE materials, prevent penetration of mild chemicals: Acid,alkaline and oil
- 2 piece: Jacket and pants, provide comfort

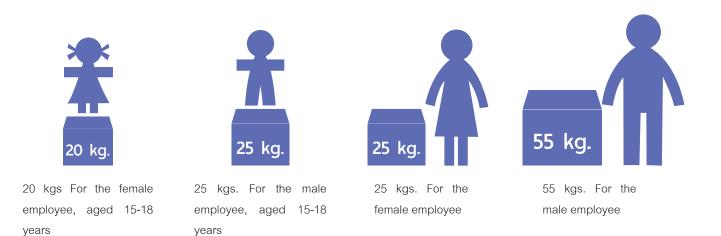
Your Safety DNA

Package	le Code		Description	Color		UOM	Package
1 piece		SUIT0020ZZZZL	Chemical Protective Suit #L+	Yellow	L	1 piece	1 piece



Lifting Laws and Regulations

In 2006 - 2008 th Thai Goverment issued regulations relating to metrial handling. It set the maximum weight limit that an employee can lifet, without machanical assistance. Please see the pictograms below.



In the event that a load exceeds the limits a bove, the employee must provide facilities and equipment suitable for ensuring employee safety.

Moving Loads Safety

Moving loads from place to place may appear easy. However, each year many people are injured through poor moving practices. To solve this problem each employee should adopt safe moving practices as outlined below





- Stand close to the package and place the feet to achieve good balance
- 2. Kneel down with the back straight to evenly spread the pressure on the backbone
- 3. Take hold of the package with the palms of the hand and not just fingers
- Keep both arms and the package close to the body to spread the weight through the legs
- While keeping the head vertical to the backbone, lift slowly by using the power of the leg muscles
- If in doubt, do not attempt to lift the package and seek advice from the OH&S supervisor







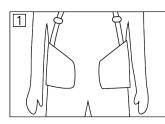


Made of high qua Flexible with poly

- Made of high quality elastic, light weight, good ventilation.
- Flexible with polycarbonate poles
- Adjustable belt for wearer comfort
- Adjustable shoulder straps
- Supports the lower backbone and abdomen

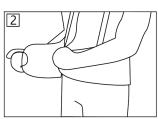
Code	Description	Size	Color	UOM	Package
HRNB0003	Back Support: 1 strap +	S, M, L, XL, XXL	Black	1 piece	1 piece
HRNB0009	Back Support: 2 straps+	S, M, L, XL, XXL	Black	1 piece	1 piece
HRNB0012	Back Support: 2 straps #10"+	S, M, L, XL, XXL	Black	1 piece	1 piece

How to Wear Back Support

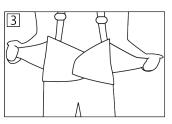


HRNB0012

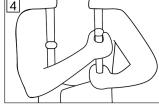
1. Put on the strap over the shoulders



2. Adjust the size by release the flaps from the Velcro and park it at another side of the belt.



3. Wrap the belt around to the front. Make sure you belt is not too tight.



4. Adjust the suspenders

CIZE	FOR	WAIST	FOR HIP			
SIZE	inch	cm.	inch	cm.		
S	20 - 26	50.8 - 66.0	24 - 30	61.0 – 76.2		
М	26 – 32	66.0 – 81.3	30 – 36	76.2 – 91.4		
L	32 – 38	81.3 – 96.5	36 – 42	91.4 – 106.7		
XL	38 – 44	96.5 – 111.8	42 – 48	106.7 – 122.0		
XXL	44 – 60	111.8 – 126.0	48 – 54	122.0 – 137.0		

Maintenance

- 1. Hand cleaning only with soap. Don't leave in water.
- 2. Warm water, not over 45°C
- 3. Do not use Chemical detergent or Dry Clean
- 4. Rubbing at the dirty point and do not twist the belt
- 5. Dry out in the shade

