

Honeywell

THE POWER OF **CONNECTED**

PROTECTIVE CLOTHING CATALOGUE



Comfort and expertise in technical fabrics

Honeywell clothing provides workers with outfits and equipment that are adapted to the risks to which they are exposed with the largest range of coveralls. To meet the expectations of different users, a wide range of clothing is available, depending on the nature and level of protection required.

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EUROPEAN STANDARDS

The European Economic Community adopted Directive 89/686/EEC in 1989, which defines the requirements that must be met by Personal Protective Equipment in order to preserve the health and safety of users.



The hazards are divided into three categories:

- CATEGORY 1** MINOR HAZARDS
- CATEGORY 2** INTERMEDIATE HAZARDS
- CATEGORY 3** SERIOUS OR FATAL HAZARDS




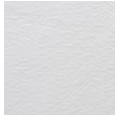


PICTOGRAM	STANDARDS	DESCRIPTION
	EN 14605 Types 3 and 4 EN 13982-1 Type 5 - EN 13034 Type 6	Chemical protection - Types 3, 4, 5 and 6
	EN 1149-5	Protection against the build-up of electrostatic charges*
	EN 20471:2013	High visibility clothing
	EN 14126	Protection against biological agents
	EN 1073-2	Protection against radioactive contamination** in the form of particles
FR	EN 14116 (new norm EN533)	Protection against the propagation of flames***
M1	NFP 92 - 507	Protection against the propagation of flames***
ATEX	EN 13463-1:2009	Group IIIA, IIIB, IIIC, dust zones 21 & 22

* To ensure proper grounding, static electricity cannot be managed in an separate garments (jacket, pants, etc.) but always within a complete system of antistatic equipment.
** Does not protect against radiation - *** Does not protect against flames - Limited burning if it catches fire - Not for use in the event of fire.





To help you choose the right protective clothing, 6 levels of protection or 'types' - have been defined by the european union:

TYPE	PICTOGRAM	STANDARDS	DESCRIPTION
Type 1		EN 943-1 / EN 943-2	Gas-tight clothing
Type 2		EN 943-1	Non gas-tight clothing
Type 3		EN 14605	Protection against liquid chemicals in the form of jets (high speed projection)
Type 4		EN 14605	Protection against liquid chemicals in the form of spray
Type 5		EN 13982-1	Protection against solid chemicals suspended in the air (solid particles)
Type 6		EN 13034	Protection against liquid chemicals in the form of small splashes

QUALITY MATERIALS FOR OPTIMIZED PROTECTION:

<p>Polyethylene (SPACEL® 3000, 4000)</p>		<ul style="list-style-type: none"> • Excellent mechanical resistance (tearing, perforation, abrasion and stress). • Good elongation. • Good chemical resistance. • Watertight.
<p>Gray laminated polypropylene, polyethylene and EVOH (SPACEL® Comfort Heavy)</p>		<ul style="list-style-type: none"> • Excellent chemical resistance. • Excellent mechanical resistance (tearing, perforation, abrasion and stress). • Watertight.
<p>Non-woven polypropylene (Mutex® E Light, Deltasafe, etc.) Viscose (Essian FR)</p>		<ul style="list-style-type: none"> • Lightweight. • Breathable. • Comfortable.
<p>Non-woven polypropylene laminated with a microporous film (Mutex/Spacel®)</p>		<ul style="list-style-type: none"> • Lightweight. • Flexible. • Resists liquid penetration. • Comfortable.
<p>Non-woven polypropylene laminated with a barrier film (SPACEL® C Light or Medium) Viscose coating (SPACEL® Comfort FR)</p>		<ul style="list-style-type: none"> • Excellent mechanical resistance (tearing, perforation, abrasion and stress). • Very good chemical resistance. • Watertight. • Comfortable.
<p>Polyester (Ne-Hon™ 5+)</p>		<ul style="list-style-type: none"> • Lightweight • Breathable • High visibility orange • Water repellent treatment



REFERENCES	DESCRIPTIONS	CATEGORIES					EN 1149	EN 14126	EN1073-2			
			TYPE 3	TYPE 4	TYPE 5	TYPE 6						
45 098 05 / 45 098 07	Ne-Hon™ 5+	3			X	X*						X
45 001 01	MUTEX® E Light	3			X	X	X		X			
45 002 00	ESSIAN® 2 White	3			X	X	X		X			
45 002 10	ESSIAN® 2 Blue	3			X	X	X		X			
45 005 01	MUTEX® Light +	3			X	X	X	X	X			
41 800 02	MUTEX® 2	3			X	X	X	X	X			
45 005 05	MUTEX® Light BS	3			X	X	X	X	X			
45 714 50	DELTASAFE®	3			X	X	X		X	X	X	
45 003 00	ESSIAN® FR	3			X	X	X		X	X		
45 006 01	SPACEL® C4	3		X	X	X	X	X	X			
45 006 11	SPACEL® C4P	3		X	X	X	X	X	X			
45 030 02	SPACEL® 3000 EBJ	3			X	X		X				
45 030 00	SPACEL® 3000 RA EBJ	3	X	X	X	X		X				
45 040 00	SPACEL® 4000 RA EBJ	3	X	X	X	X		X				
45 060 00	SPACEL® C Medium	3	X	X	X	X		X	X			
45 070 00	SPACEL® COMFORT Heavy	3	X	X	X	X	X	X	X			
45 080 00	SPACEL® COMFORT FR	3	X	X			X			X		
41 801 43	JUMPSUIT White	1										
45 030 05	SPACEL® 3000 APRON	3	X						X			
41 801 30	SPACEL® 2000 EBJ	1										

*: Type 6 test cabinet compliant

By risk:

Non-dangerous hazards	Liquid	Spacel® 2000
	Solid	Mutex® E Light Jumpsuit
Dangerous hazards	Gas	Gas tight (type 1 & 2) EasyChem 1A & 1B
	Liquid	Jet (type 3) Spacel® 3000 (RA EBJ et RA GC PS) / Spacel® Apron (PB) Spacel® 4000 (RA EBJ et RA GC PS) Spacel® C Medium Spacel® C. Heavy Spacel® C. FR
		Spray (type 4) Spacel® C4/P Spacel® 3000 (3000 AP RA EBJ) Spacel® C. Light
		Splash (type 6) Mutex® Light Mutex® Light BS Mutex® 2 Spacel® 3000 (EBJ, AP EBJ, AP RA EBJ)
	Solid	Particles > 1µ (type 5) Mutex® E Light
		Particles < 1µ (type 5) Mutex® Light + Mutex® 2 Spacel® 3000 (EBJ) Essian® 2
	High Visibility	Type 6 test cabine compliant Ne-Hon™ 5+
	Flame-retardant	Liquid (type 3&4) Spacel® C. FR
		Solid (type 5&6) Deltasafe® Essian FR



By application:

	Mutex® E Light	ESSIAN® 2 White / Blue	MUTEX® Light +	Mutex® Light BS	MUTEX® 2	DELTASAFE®	ESSIAN® FR	Spacel® C4/P	SPACEL® 3000 EBJ	SPACEL® 3000 RA EBJ	SPACEL® 4000 RA EBJ	SPACEL® C Medium	SPACEL® COMFORT Heavy	SPACEL® COMFORT FR	SPACEL® 3000 APRON	Ne-Hon™ 5+	
Construction																x	
Transportation																	x
Disease protection (e.g. Ebola)			x	x	x			x	x	x	x	x	x		x		
Asbestos inspection	x	x	x	x	x												
Asbestos removal								x		x	x	x	x				
Pharmaceutical industry	x	x	x	x	x			x				x	x				
Painting			x	x	x			x									
Pesticides								x									
Chemical handling										x	x	x	x				
Tank cleaning / chemical decontamination										x	x	x	x				
Light industrial cleaning & maintenance	x	x	x	x	x												
Food industry cleaning									x	x	x	x	x				
Activities generating sparks						x	x								x		

x mostly adapted / x suitable

Taking measurements

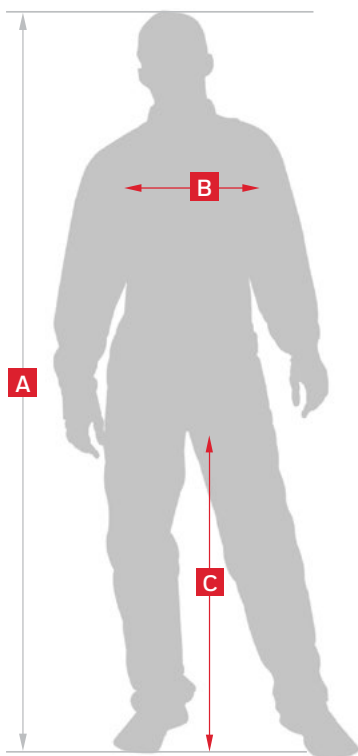
Measurements must be taken directly on the body, and not too tight. When measurements are between two sizes, choose the smaller one for a tighter fit and the larger one if you prefer a looser fit.

Choose your size

A HEIGHT: measure from the top of the head to the floor, barefoot with heels together.

B CHEST SIZE: measured at the largest point.

C INSIDE LEG: measure from the crotch down to the floor in a straight vertical line.



CORRESPONDING SIZES FOR THE SPACEL® 2000

ORDER SIZES	2	3	4	5	6
Height (in cm)	152-164	164-176	176-188	188-200	200-212
Chest size (in cm)	76-140	76-140	76-140	76-140	76-140
Inside leg (in cm)	80	85	90	97	97

CORRESPONDING SIZES FOR THE SPACEL® 3000 AND 4000

ORDER SIZES	S	M	L	XL	XXL	XXXL
Height (in cm)	164-172	170-178	176-184	182-190	188-196	> 194

CORRESPONDING SIZES FOR ALL THE OTHER COVERALLS

ORDER SIZES	S	M	L	XL	XXL	XXXL
Height (in cm)	164-170	170-178	178-182	182-188	188-194	194-200
Chest size (in cm)	84-92	92-100	100-108	108-116	116-124	124-132

Single use coveralls are used mainly in the following sectors of activity:

Chemical-petrochemical /
Laboratories / Waste disposal
/ Asbestos removal / Industrial
cleaning / Industrial maintenance
/ Industrial painting / Automobile
/ Mechanical work / Farming /
Food industry / Police / Electronics
/ Emergency service / Medical
sector / Pharmaceutical industry
/ Humanitarian / Health /
Catering / Transport of hazardous
substances...

Honeywell Industrial Safety: Specialist in single use products

The experience acquired over 30 years in the production of coveralls as well as knowledge in the requirements of industries as varied as chemical, construction, food, petrochemical, pharmaceutical, telecommunications, utilities and many others, gives Honeywell expertise in developing the best personal protection.

Honeywell Industrial Safety pays close attention to product design by meeting all requirements of the standards as well as those regarding comfort and practical use. As a result of its international facilities, Honeywell Industrial Safety is able to respond effectively to the expectations of professionals around the world.

This helps encourage the systematic wearing of protective equipment and consequently improves personal protection on a daily basis.



A complete range of outfits and accessories to guarantee total protection for the body, to provide you with a comprehensive solution.

NE-HON™ 5+

NEW CATEGORY 3



EN 20471
Class 3

Type 5 & 6



The new version of the 1st certified Hi-Vis single use coverall in the market

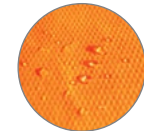
Ergonomics & comfort

- Reinforced mechanical resistance allowing the use in very harsh Environments
- Very Breathable (Ret=2)
- Outer Flap Increased protection against contamination
- Raglan sleeves Superb freedom of movement
- Dual slide zipper Ease of use
- Thumb loops Prevents sleeves from riding up
- Crotch gusset for comfort Superb freedom of movement

- Elasticated waist at the back Perfect fit
- Hood option For extended protection

Applications

- Railways
- Confined Spaces
- Industrial maintenance /cleaning
- Waste management
- Emergency services
- Construction
- Any dirt or wet activities where high-visibility protection is needed



Fully water-resistant coverall



Dual slide zipper Outer Flap



Reinforced knees Greater durability

Composition: 100% Polyester, Fluorescent orange + reflective strips, Water resistant treatment. **Weight:** 90g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 098 05	Ne-Hon™ 5+ with reinforced knees and without hood	S to XXXL	Individually packed
45 098 07	Ne-Hon™ 5+ with reinforced knees and with hood	S to XXXL	Individually packed

MUTEX® E LIGHT

CATEGORY 3



Type 5 & 6

EN 1149-5 EN 1073-2*

Ergonomics & comfort

- Lightweight for even greater comfort.
- Excellent breathability - as comfortable as a T-shirt.
- Elasticated wrists and ankles.
- 3-piece elasticated hood: for a better fit.
- Tear resistant crotch design.
- Dual slider zip.
- Silicone and latex free.

Applications

- Construction / Building and Public Works.
- Maintenance work.
- DIY.
- Landscaping.
- Chemical/petrochemical

Composition: Non-woven polypropylene 3 layers (SMS) - white. **Weight:** 56g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 001 01	Mutex® E Light	S to XXXL	50 units per carton, individually packed

* Does not protect against radiation.



3-piece hood



Elasticated wrists



Special crotch design

ESSIAN® 2

CATEGORY 3



Enhanced protection

- Bounded seams to reinforce resistance and prevent solid particles & liquid from penetration
- Double flap and double zipper for optimum protection.
- Adhesive outer flap.
- Tear resistant crotch design.

Ergonomics & Comfort

- Soft and Lightweight raw material for greater comfort.
- Elasticated waist and ankles.
- 3-piece hood for a better fit.

Applications

- Chemical/Petrochemical
- Industrial maintenance / cleaning
- Asbestos removal
- Waste disposal
- Painting
- Pharmaceutical industry
- Police
- Emergency/Humanitarian services
- Construction



Bounded seams

Composition: Non-woven polypropylene 4 layers (SMMS) – white or blue. **Weight:** 55g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 002 00	Essian® White	S to XXXL	25 units per carton, individually packed
45 002 10	Essian® Blue	S to XXXL	25 units per carton, individually packed

* Does not protect against radiation.



MUTEX® LIGHT +

CATEGORY 3



Enhanced protection

- Tear resistant crotch design.
- Certified against biological agents.
- Good resistance to tearing and liquid penetration.

Ergonomics & Comfort

- Lightweight for even greater comfort.
- Elasticated wrists and ankles.
- 3-piece elasticated hood: for a better fit.
- Dual slider zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial maintenance.
- Construction / Building and Public Works.
- Asbestos removal.
- DIY.
- Waste disposal.
- Landscaping.



Dual slider zip



Special crotch design

Composition: White non-woven polypropylene laminated with a microporous film . **Weight:** 65g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 005 01	Mutex® Light +	S to XXXL	25 units per carton, individually packed

* Does not protect against radiation.

MUTEX® LIGHT BS*

CATEGORY 3



Single use coverall, all-in-one solution for use with or without fall protection harness

An innovative back sleeve

- Unique design with Velcro® fastening: Possibility to choose to wear the sleeve or not
- Open back sleeve that needs to be fixed with adhesive tape

- Crotch gusset for comfort Superb freedom of movement

Applications

- Painting activities
- Food silos cleaning and maintenance
- Maintenance at height

Ergonomics & Comfort

- Raglan sleeves Superb freedom of movement
- Double zip Ease of use
- Thumb loops Prevents sleeves from riding up

Composition: Non-woven polypropylene laminated with polyethylene breathable film suit. **Weight:** 65g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 005 05	Mutex® Light BS	S to 5XL	25 units per carton, individually packed

*Back Sleeve



MUTEX® 2

CATEGORY 3



Enhanced protection

- No shoulder seams.
- Double flap - inside and outside.
- Ultra wide seams for better resistance against stress.
- Very good resistance to tearing and liquid penetration.

- Dual slider zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry
- Pharmaceutical/Laboratories
- Electronics
- Automotive
- Industrial maintenance
- Industrial painting
- Cleaning of contaminated environments
- Emergency services
- Asbestos

Ergonomics & Comfort

- Wide fit under the arms for greater ease of movement.
- Elasticated wrists and ankles.
- Tear resistant crotch design.

Composition: White non-woven polypropylene laminated with a microporous film. **Weight:** 69g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
41 800 02	Mutex® 2	S to XXXL	25 units per carton, individually packed

* Does not protect against radiation.



DELTASAFE®

CATEGORY 3



Enhanced protection

- Certified under NFP 92-507: flame retardant material, limits the propagation of flames.
- Antistatic
- Double flap inside and outside.
- Very good abrasion, tear and perforation resistance.

Ergonomics

- Excellent breathability - as comfortable as a T-shirt.
- Dual slider.
- Dual slider zip.

Applications

- Chemical/petrochemical industry.
- Refineries.
- Nuclear industry.
- Repair and industrial maintenance.
- Utilities.
- Services.

Composition: Non-woven polypropylene 4 layers (SMMS) - white. **Weight:** 60g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 714 50	Deltasafe®	S to XXXL	25 units per carton, individually packed

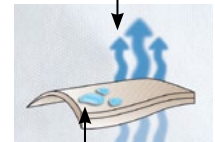
* Does not protect against radiation.

** Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.

Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames



Maximum breathability



Protection against splashes of certain chemicals



Zip with dual slider



ESSIAN® FR

CATEGORY 3



Enhanced protection

- EN 533 and EN 14116 certified: flame retardant material, reduces the risk of fire.
- Double flap inside and outside.
- Ultra wide seams for better resistance against stress.
- Tear resistant crotch design.

Ergonomics

- Soft and lightweight raw material for greater comfort.
- 3-piece hood: for a better fit.
- Dual slider zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial maintenance
- Transport.

Composition: Non-woven blue viscose. **Weight:** 90g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 003 00	Essian® FR	S to XXXL	25 units per carton, individually packed

* Does not protect against radiation.

** Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.

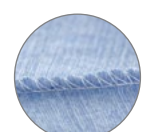
Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames.



Dual slider zipper



3-piece hood



Ultra wide seams

SPACEL® C4 / SPACEL® C4P

CATEGORY 3



Enhanced protection

- Watertight seams to improve resistance to liquids.
- Adhesive flap.
- Tear resistant crotch design.
- Very good abrasion, tear and perforation resistance.
- Thumb hole for a better fit.
- Dual slider zip.

Ergonomics

- Lightweight for even greater comfort.
- Elasticated waist and ankles.
- 3-piece hood for a better fit.
- Silicone and latex free.

Applications

- Chemical/petrochemical.
- Industrial maintenance/cleaning.
- Asbestos removal.
- Waste disposal.
- Painting.
- Pharmaceutical industry.
- Police.
- Emergency/humanitarian services.
- Construction.
- Phytosanitary.
- Services.



Coverall: Polypropylene laminated with microporous film. **Weight:** 65g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 006 01	Spacel® C4	S to XXXL	25 units per carton, individually packed
45 006 11	Spacel® C4P	S to XXXL	25 units per carton, individually packed

* Does not protect against radiation.

SPACEL® 3000 EBJ

CATEGORY 3



Enhanced protection

- Sealed zipper
- Sealed seams - excellent chemical resistance
- Smooth surface - excellent evacuation of liquids.
- High visibility color.

Ergonomics

- Very good abrasion, tear and perforation resistance
- Material elongation up to 400%

Applications

- Industrial cleaning.
- Health.
- Industrial maintenance
- Chemical.
- Pharmaceutical industry/Laboratories.
- Emergency services.
- Work in polluted areas

Composition: Three-layer yellow polyethylene film. **Thickness:** 100µm

REF.	DESCRIPTION	SIZES	PACKAGING
45 030 02	SPACEL® 3000 EBJ	S to XXXL	25 units per carton, individually packed
OPTION			
45 030 03 Type 6	SPACEL® 3000 AP/RA/EBJ 1 & 2	S to XXXL	25 units per carton, individually packed
45 030 04 Type 6 B	SPACEL® 3000 AP*/EBJ 1	S to XXXL	25 units per carton, individually packed

* AP: Dorsal ventilation



Dorsal ventilation



Adhesive flap

SPACEL® 3000 RA/EBJ*

CATEGORY 3



Optimal protection

- Sealed zipper covered with a double adhesive flap.
- Sealed seams.
- Very good abrasion, tear and perforation resistance.
- Watertight due to "Spaseal" welding, exclusive to Honeywell Industrial Safety.
- Excellent visibility.

Applications

- Chemical/petrochemical industry.
- Cleaning and industrial maintenance.
- Decontamination.
- Transport of hazardous substances.
- Work in polluted areas.
- Health.
- Emergency services.

Ergonomics

- New ergonomics.
- Material elongation up to 400%.
- Elasticated hood, waist, wrists and ankles.

Composition: Three-layer polyethylene film - yellow. **Thickness:** 100µm**

REF.	DESCRIPTION	SIZES	PACKAGING
45 030 00	SPACEL® 3000 RA/EBJ	S to XXXL	25 units per carton, individually packed
OPTION			
45 030 01	SPACEL® 3000 RA/GC/PS***	S to XXXL	10 units per carton, individually packed

* RA/EBJ: Adhesive flap / Elasticated arms and legs.

**1 µm equals 1/1,000,000m = 1 x10-6m = 1 micron.

*** RA/GC/PS: Adhesive flap / Glued-on gloves / Built-in overshoes



Adhesive flap



Built-in overshoes



Glued-on gloves



SPACEL® 4000 RA/EBJ**

CATEGORY 3



Optimal protection

- Sealed zipper covered with a double adhesive flap.
- Sealed seams.
- Very good abrasion, tear and perforation resistance.
- Watertight due to "Spaseal" welding, exclusive to Honeywell Industrial Safety.
- Excellent visibility.
- Material elongation up to 400%

Applications

- Chemical/petrochemical industry.
- Cleaning and industrial maintenance.
- Decontamination.
- Transport of hazardous substances.
- Cleaning and industrial maintenance.
- Work in polluted areas
- Health.
- Emergency services.

Ergonomics

- Elasticated hood, waist, wrists and ankles.

Composition: Three-layer polyethylene film - green. **Thickness:** 150µm*

REF.	DESCRIPTION	SIZES	PACKAGING
45 040 00	SPACEL® 4000 RA/EBJ**	S to XXXL	25 units per carton, individually packed
OPTION			
45 040 01	SPACEL® 4000 RA/GC/PS***	S to XXXL	10 units per carton, individually packed

* 1 µm equals 1/1,000,000m = 1 x10-6m = 1 micron.

** RA/EBJ: Adhesive flap / Elasticated arms and legs.

*** RA/GC/PS: Adhesive flap / Glued-on gloves / Welded soles.



Built-in overshoes



Glued-on gloves

SPACEL® C MEDIUM

CATEGORY 3



Enhanced protection

- Stitched and taped seams for resistance equal to that of the material.
- Double flap and double zipper for optimum protection.
- Knee pads.
- Adhesive outer flap.
- Tear resistant crotch design.
- Very good resistance to tearing and liquid penetration.
- Excellent visibility: brightly colored.

Ergonomics & comfort

- Lightweight.
- Elasticated wrists and ankles.
- 3-piece elasticated hood: for a better fit.
- Dual slider zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial cleaning
- Decontamination.
- Industrial maintenance.
- Civil engineering.
- Pharmaceutical industry.



Composition: Non-woven polypropylene laminated with polyethylene film - orange. **Weight:** 80g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 060 01	SPACEL® C Medium	S to XXXL	25 units per carton, individually packed

* Does not protect against radiation.

SPACEL® COMFORT HEAVY

CATEGORY 3



Enhanced protection

- Stitched and taped seams for resistance equal to that of the material.
- Double flap and double zipper for optimum protection.
- Knee pads.
- Adhesive outer flap.
- Tear resistant crotch design.
- Good tear resistance.
- Excellent chemical resistance.

Ergonomics & comfort

- Elasticated wrists and ankles.
- 3-piece elasticated hood: for a better fit.
- Dual slider zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial cleaning
- Decontamination.
- Industrial maintenance.
- Civil engineering.
- Pharmaceutical industry.



Composition: Non-woven polypropylene laminated with a complex polyethylene-EVOH film - gray. **Weight:** 155g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 070 00	SPACEL® Comfort Heavy	S to XXXL	10 units per carton, individually packed

* Does not protect against radiation.

SPACEL® COMFORT FR

CATEGORY 3



Enhanced protection

- Stitched and taped seams for resistance equal to that of the material.
- Double flap and double zipper for optimum protection.
- Adhesive flap.
- Tear resistant crotch design.
- Good resistance to tearing and liquid penetration.

Ergonomics & comfort

- Lightweight.
- Elasticated wrists and ankles.
- 3-piece elasticated hood: for a better fit.
- Dual slider zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial cleaning
- Decontamination.
- Industrial maintenance.
- Civil engineering.
- Pharmaceutical industry.



Composition: Non-woven coated viscose, gray. **Weight:** 138g/m²

REF.	DESCRIPTION	SIZES	PACKAGING
45 080 00	SPACEL® Comfort FR	S to XXXL	10 units per carton, individually packed

** Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames.

JUMPSUIT WITH HOOD

CATEGORY 1

- Excellent breathability.

Applications

- Hygiene.
- Cleaning.
- Food industry.
- Catering.
- Pharmaceutical industry/ Laboratories.
- Factory visits.

Coverall: Non-woven polypropylene. **Weight:** 40g/m²

REF.	DESCRIPTION	SIZES	COLORS	PACKAGING
41 801 43	Jumpsuit with hood	3 to 5	White	25 units per carton, in bags of 5



SPACEL® 3000 APRON

CATEGORY 3



Ergonomics

- Long-sleeved apron
- Elasticated wrists
- No seams
- 2 straps for a better adjustment

Composition: Three-layer yellow polyethylene film. **Thickness:** 100µm

REF.	DESCRIPTION	SIZES	PACKAGING
45 030 05	SPACEL® 3000 apron	M to XXXL	50 units per carton, individually packed

*Partial body



SPACEL® 2000 EBJ

CATEGORY 1

Enhanced protection

- Smooth surface - excellent evacuation of liquids.

Ergonomics

- Lightweight material 50 µm.

Applications

- Industrial cleaning
- Health.
- Industrial maintenance.
- Pharmaceutical industry/ Laboratories.
- Work in poor weather conditions.

Composition: Blue polyethylene film. **Thickness:** 50µm

REF.	DESCRIPTION	SIZES	PACKAGING
41 801 30	SPACEL® 2000 EBJ	2 to 6	50 units per carton, individually packed
OPTION			
41 801 31	SPACEL® 2000 AP/EBJ	2 to 6	50 units per carton, individually packed



Dorsal ventilation

Equipment designed to provide protection in work environments from low risk hazards where the effects are easily reversed: low toxicity cleaning products, diluted detergent solutions, grease, etc.

MUTEX® LIGHT OVERBOOTS

- Non-slip sole - antistatic.
- Suitable for safety shoes up to size 45.
- Antistatic
- Non-slip.
- Lightweight

Design

- Elasticated calves.
- 4 adjustable laces for a better fit.

Composition: White non-woven polypropylene laminated with a microporous film. **Weight:** 65g/m² - antistatic.

REF.	HEIGHT	LENGTH	WIDTH OF SOLE	PACKAGING
45 500 00	57cm	32cm	13cm	100 pairs per carton



SPACEL® C MEDIUM OVERBOOTS

- Non-slip sole - antistatic.
- Suitable for safety shoes up to size 45.
- Antistatic
- Non-slip.
- Liquid tight.
- Lightweight
- Excellent resistance.

Design

- Elasticated calves.
- 4 adjustable laces for a better fit.

Composition: Orange non-woven polypropylene laminated with a polyethylene film. **Weight:** 80g/m² - antistatic.

REF.	HEIGHT	LENGTH	WIDTH OF SOLE	PACKAGING
45 600 01	57cm	32cm	13cm	Case of 25 pairs



PE 70 µm TEXTURED OVERBOOTS

- Liquid tight.
- Non-slip.
- Low particulate release.

Design

- Elasticated calves.

Composition: Transparent textured polyethylene film. **Thickness:** 70µm

REF.	HEIGHT	LENGTH	WIDTH OF SOLE	PACKAGING
45 799 11	57cm	40cm	13cm	250 pairs in cases of 25 pairs



MUTEX® LIGHT OVERSHOES

- Non-slip sole - antistatic.
 - Suitable for safety shoes up to size 45.
 - Antistatic.
 - Non-slip.
 - Lightweight.
- Design**
- Elasticated ankles

Composition: White non-woven polypropylene laminated with a polyethylene microporous film.
Weight: 65g/m² - antistatic.

REF.	HEIGHT	LENGTH	WIDTH OF SOLE	PACKAGING
45 510 00	15cm	32cm	13cm	100 pairs per carton



PE 130 µm TEXTURED OVERSHOES

- Very high resistance.
 - Liquid tight.
 - Non-slip.
- Design**
- Elasticated ankles

Composition: White textured polyethylene film. **Thickness:** 130µm.

REF.	HEIGHT	LENGTH	WIDTH OF SOLE	PACKAGING
45 598 11	19.5cm	12cm	13cm	100 pairs per carton



MUTEX® LIGHT CUFFS

- Antistatic
- Silicone and latex free

Composition: White non-woven polypropylene laminated with a microporous polyethylene film.
Weight: 65g/m² - antistatic.

REF.	WIDTH	LENGTH	PACKAGING
45 520 00	-	50cm	100 pairs per carton



SPACEL® CUFFS

- Enhanced protection.
- Liquid tight.

Composition: White polyethylene film. **Thickness:** 130µm.

REF.	WIDTH	LENGTH	PACKAGING
45 700 01	20cm	45cm	100 pairs per carton



ASBESTOS BAG

- To assemble and discard clothing and accessories that have been in contact with asbestos.
- Zip and adhesive flap
- 80µ

REF.
45 981 02 * / 45 981 04 ** / 45 981 05 **

Composition: White polyethylene film.
Thickness: 130µm.

*: 40x45 cm / **: 40x60 cm



Honeywell proposes a complete range of personal protective equipments, produced and designed in France, including hoods, coveralls and accessories for the most demanding environments.

The equipment guarantees the highest protection level of the body and respiratory tract, with enhanced comfort through optimized ventilation.







The quality and performance of the solutions supplied by Honeywell make us a preferred partner when it comes to protecting people in high-risk areas such as nuclear sites, pharmaceutical and chemical industries and biological research laboratories.

Always attentive to better serve your needs, these products can be adapted to fit customers' specific risks and working conditions.



ALL THE VENTILATED PROTECTIVE CLOTHING EQUIPMENT IS IN CATEGORY 3 (PROTECTION AGAINST SERIOUS OR FATAL HAZARDS)

Standards

PICTOGRAM	STANDARDS	DESCRIPTION
	89/686/EEC	European Directive
	EN 1073-1	Protective clothing against particulated radioactive contamination
	EN 943	Protection against liquid and gaseous chemicals, including liquid aerosols and solid particles Type 1 gas-tight / Type 2 non gas-tight
	EN 14605 Types 3 and 4, EN 13982-1 Type 5, EN 13034 Type 6	Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only.
	EN 1149-5	Antistatic: Electrostatic protection when correctly earthed
	EN 92507	Protection against the propagation of flames
	ELECTROSTATIC-INERIS	Volunteer certification intended to ensure the safety of certain equipment (hoses, filters...) and Personal Protective Equipment (PPE) with electrostatic risks because used in Atex area (EN13463- 1:2009). ATEX certified (Group IIIA, IIIB, IIIC, dust zones 21 and 22) European Directive: 89/686/EEC
	NF EN 14594	Continuous Flow Compressed Air Line Breathing Apparatus

Our strength: protecting the whole body

- 1 – Protection of the airways against dust and contaminants: at least 25 times better than a standard PAPR and 1000 times a full face mask with P3 filter
- 2 – Protection of the body against dust and contaminants: at least 25 times better than a liquid-tight coverall and 1000 times a solid-tight single-use coverall

Air-Fed Suit Protection Factor (PF): The Protection Factor is the measurement of the concentration between the inside and outside of the protective suit (using NaCL solid particles 1/3 µm). When the PF is greater than 2000, only one particle is likely to penetrate the suit.

PROTECTION FACTOR	50	2000	50,000
PROTECTION OF THE BODY	Standard single use coverall	Liquid tight coverall	Ventilated coverall
PROTECTION OF THE AIRWAYS	Mask & filter	PAPR & filter	Ventilated hood



Key features & benefits



- 1 Wide field of view.**
For greater visibility



- 2 Adjustable supply valve.**
Easy adjustment of the air flow and maximum comfort



- 3 Removal tag.**
Reduces the risk of contamination and makes removal quicker



- 4 Outlet valve.**
Guaranteed lasting positive pressure



- 5 Air circulation network**
Allows air to circulate inside the coverall for enhanced comfort



- 6 Non-slip soles**
Improves grip on slippery surfaces



MURUROA™ REINFORCED

NEW CATEGORY 3



Ventilated suit with a highly resistant skin for mechanically aggressive environments

Reinforced protection

- Excellent protection factor (PF): PF > 50,000 (class 5 – EN1073-1)
- Composed of a robust polyester fabric with a dual PVC coating successfully used in dismantling operations for 20 years: high mechanical resistance (abrasion, perforation, tear...)
- Optional elements
 - > Device Filtering & Removal (DFR): to be used either as an emergency escape device in case of air supply default and/or to increase safety during undressing (1). Protects the respiratory tractus not only during normal dismantling activities but also during undressing & emergency.
 - > Presence of a Low Pressure Warning Device (AP): warns users in case of air supply default (2)
 - > HEPA filter: limits the risk of contamination during air supply connections
 - > Undressing strap: to undress easily while containing the contamination (3)
 - > Three sole options (anti-skid, reinforced, standard with boot flap): allows to adapt to different work environments (6)

Comfort

- Integral air distribution for complete body ventilation (head, arms and legs) (5)
- Adjustable air flow with a tap for a simple air control (500 to 1100 l/min) (4)
- Large armholes to facilitate dressing
- Loop on the side to maintain the supply pipe
- Optional elements
 - > Gloves in PVC supplied with the suit, either welded or to tape on disposable cuffs: adaptation to different types of work environments
 - > Presence of harness sleeve: adaptation to work conditions

Additional Information

- Single-use ventilated suit
- Air flows:
 - > Minimal: 500 l/min for an inlet pressure of 4.8 bars
 - > Maximal: 1100 l/min for an inlet pressure of 5.5 bars

Product Use

- In solid particle contaminated areas
- For works in awkward environments (nuclear maintenance, dismantling, asbestos removal...)



Watch Video:
Emergency procedure

Watch Video:
Undressing procedure



Composition: M2 flame retardant PVC coated textile.

REF.	DESCRIPTION	SIZES	PACKAGING
CC8416XYT	Mururoa™ Reinforced	T2 to T5	8 suits/case (welded glove versions) or 5 suits/case (cuff versions)

* EN 1073-1: 1998 Protective clothing against radioactive contamination: Requirements and test methods for ventilated protective clothing against particulated radioactive contamination.
 ** M2: NFP 92507 Protection against the propagation of flames (Does not protect against flames - Limited burning if it catches fire - Not for use in the event of fire.)

MAR 95-3

CATEGORY 3



Applications

- Nuclear industry, in areas where the air is polluted with solid particles and where protection of the whole body is recommended.
- Where mechanical resistance is required, a version with reinforced material is available (MAR 95-3 PMI).

Added safety

- Protection factor class 3 (> 10,000)
- Mask with P3 or IPR filter for excellent protection of the airways on removal.
- Quick and safe removal with removal tag.
- Flame-retardant materials

Ergonomics

- Simple and convenient regulation of the air: air flow adjustable with a valve.
- 360° field of vision.
- Low noise level.
- Built-in ventilation.

Use

- Single-Use



Composition: Pink PVC 20/100th flame retardant M1

REF.	DESCRIPTION	SIZES	PACKAGING
CC8431XYT	MAR 95-3	2 to 5	10 outfits/box

* Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames

VENTILATED PROTECTIVE CLOTHING > NUCLEAR & PHARMACEUTICAL INDUSTRIES

MURUROA V4F1

CATEGORY 3



Applications

- Nuclear, chemical and pharmaceutical industries in areas where the air is polluted with solid particles and where protection of the airways is recommended.

Added safety

- Protection factor class 5 (> 50,000)
- Quick and safe removal with the removal tag.
- Visual warning of reduced airflow (option).
- Air tight double seal on the back.
- Flame retardant materials

Ergonomics

- Simple and convenient air regulation: air flow adjustable with a valve.
- 360° field of vision.
- Low noise level.
- Built-in ventilation.

Use

- Single-Use



Composition: Pink PVC 20/100th flame retardant M1

REF.	DESCRIPTION	SIZES	PACKAGING
CC8481X1T	MURUROA V4F1	0 to 5	10 outfits/box

* Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames

GRIDEL AP

CATEGORY 3



NFP 92507*



NFP 92507**



EN14594



EN 1073-1*

Applications

- Nuclear, chemical and pharmaceutical industries in areas where the air is polluted with solid particles and where protection of the airways is recommended.

Added safety

- Easy and safe implementation.
- Protection factor class 5 (> 50,000).
- Low Pressure Warning Device (AP) integrated
- Flame-retardant materials

Ergonomics

- Comfortable: good ventilation and low noise level.
- 360° field of vision.
- Air flow adjustable with a valve.

Use

- Single-Use



Composition: Pink PVC 20/100th flame retardant M1. Crystal PVC 30/100th flame retardant M2

REF.	DESCRIPTION	SIZES	PACKAGING
CC8527XY9	GRIDEL AP	One size for all	20 hoods/box.

* Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116: 2008 Index 1/0/0 standard. Protection against the propagation of flames.

GRIDEL PAPR

CATEGORY 3



NFP 92507*



NFP 92507**



EN12941



EN 1073-1*

Applications

- Ventilated hood, supplied by a mobile blowing unit and approved for protection against radioactive contamination particles
- Designed to be used in nuclear enclosures, or in all kinds of surroundings where a respiratory protection is necessary, in spite of lack of breathable air network
- Adapted for environments: fuel life cycle, asbestos removal...

Added safety

- Excellent protection factor (PF): PF >500 (TH3 - the highest PAPR protection level).
- High optical quality visor
- Bayonet system protected with a sleeve: quick and easy connection of the hood to the CA 200 EFS PAPR
- PAPR presenting 2 alarms with a triple alert system (audible/visual/vibration): clogging level, battery charge level

Ergonomics

- PVC belt with comfort pad
- Lightweight Lithium-ion Battery
- Smart charger
- Airflow automatically adjusted (180L/min).

Use

- Single-Use



Composition: Pink PVC 20/100th flame retardant M1. Crystal PVC 30/100th flame retardant M2

REF.	DESCRIPTION	SIZES	PACKAGING
CC85589X9	GRIDEL PAPR	One size for all	20 hoods/box.

FROG COVERALL

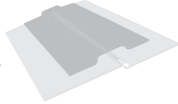
CATEGORY 3



Coverall with innovative raw material

Resistant

- Seams are tight (sealed seams or high frequency welding) & adhesive flap on the textile zipper*
- Tight material
- Mechanical resistance of the material
- Boots, hood and gloves integrated
- Knee reinforcement



Comfort

- Breathability of the raw material: < 6,5 m². Pa/W evaluated according to EN 31092
- Horizontal back opening
- Elastics around the ankles and around the waist.



Applications

- Nuclear industry
- Pharmaceutical industry
- Laboratories
- Biotechnology
- Vaccin or enzymes manufacturing



Composition: biextensible textile coated on one side with breathable polyurethane 170gsm providing a very high level of protection. **Weight** < 0.8 kg

REF.	DESCRIPTION	SIZES	PACKAGING
CC840060T	FROG coverall	1 to 5	10 per case

* Option: available also on demand with tight double zipper (ref.: CC840061T)

** EN 1073-2 - Class 2: Protection against radioactive contamination

*** Type 5: Protection against chemicals in the form of solid particles EN ISO 13982-1/A1: 2010

NB.: Honeywell provides from head to toe a complete line of personal protective equipment. The respiratory mask on the picture is part of our offer.



HAPICHEM™

CATEGORY 3



A ventilated suit dedicated to pharmaceutical/chemical areas

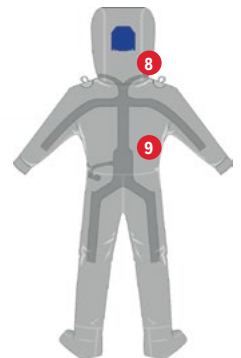
Unique and precious, don't take any risks for your health. An innovative ventilated suit specifically designed to protect against the most potent APIs like HPAPI. Chemical resistant, antistatic, Hapichem™ is to be used in areas where the air is polluted with solid and liquid particles and whole body and respiratory protection is required.

Product use

- Chemical resistant, antistatic, ventilated suit designed in areas where the air is polluted with solid and liquid particles and whole body and respiratory protection is required.
- Suit specially designed for breathable air networks with low pressure (2.8-4.6 Bar).
- Usable in Atex area (dust zones 21& 22) for version with dissipative soles.
- Single-use clothing.
- Maximum respiratory protection from powders and contaminants: at least 25 times higher than a standard PAPR. Whole body protection from active ingredients causing irritation to the skin.

Key features & benefits

- High optical quality visor for an excellent visibility and a high chemical protection (1)
- Double tight front horizontal zipper for a high protection combined with easy donning (2)
- User adjustable air flow valve for easy regulation and comfort (3)
- O-ring to adjust different types and sizes of gloves (4)
- Hanging loop to hang suit (5)
- Orange safety strip on the side for a quick emergency procedure (6)
- Different sole options to adjust to work environments (7)
- One exhaust patented magnetic valve to operate in low pressure and ensure the highest protection for workers (8)
- Patented back internal airflow to be able to work sitting-down or on the knees without risk of overpressure (9)
- Customized solutions depending on your requirements



Composition: Polypropylene (PP) non woven material laminated with an EVOH barrier film

REF.	DESCRIPTION	SIZES	PACKAGING
CC9480XYZT	HAPICHEM™	1 to 5	8 suits/case

EASYCHEM

CATEGORY 3



Applications

- Chemical, pharmaceutical and petrochemical industries, emergency services, etc.

Added safety

- Liquid tight seal with flap.
- Excellent mechanical resistance.
- SCBA inside or outside the outfit.

Ergonomics

- Fitted with a valve to prevent internal overpressure peaks.
- Welded boots and gloves that can be easily changed.

Use

- Reusable.

Option

- Easychem 1a (SCBA inside the coverall).
- Easychem 1b (SCBA outside the coverall).



Composition: Orange polyamide fabric coated on both sides with a 650g/m² elastomer

REF.	DESCRIPTION	SIZES	PACKAGING
CC8Y0X07T	EASYCHEM	1 to 4	1 outfit / box



VENTILATED & REUSABLE PROTECTIVE CLOTHING > LIFESCIENCE

BSL4

CATEGORY 3



Applications

- Laboratories where there is a major risk of biological or particle contamination (e.g. BSL4 laboratories)

Ergonomics

- Front fastening for dressing alone
- Built-in ventilation
- Simple and convenient air regulation: air flow adjustable with a valve.
- 360° field of vision
- Option of welded boots or simple feet to adapt to the environment requirement
- Disposable cuffs to easily tape your own gloves

Added safety

- Air tight seal
- Protection factor class 5 (> 50,000)
- HEPA filter incorporated into the internal ventilation system
- Excellent mechanical resistance

Use

- Reusable



Composition: Polyester fabric coated on both sides with 460g/m² PVC

REF.	DESCRIPTION	SIZES	PACKAGING
CC84862X9	BSL4	Made to measure	1 outfit/box – sold individually

* Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116: 2008 Index 1/0/0 standard. Protection against the propagation of flames.

PERSONALIZED SOLUTIONS TO MEET CUSTOMER REQUIREMENTS

- Suits can be fed either by breathable air networks or blowers
- Different raw materials available for coating the equipment: flame retardant, antistatic, low halogen content, enhanced mechanical resistance, chemical resistance, etc.
- Filter or outlet valve
- Coveralls open from the front or behind
- Welded gloves or glove rings
- Built-in feet or welded safety boots
- Single-use or reusable coveralls
- Redundant respiratory protection with integrated Full Face masks, Device Filtering Removal, HEPA filter or warning devices
- Possibility to be worn with harness positioned in front or behind



ACCESSORIES – COMPLETE SOLUTION

Honeywell proposes a complete range of accessories

- Decontamination chambers for working in confined spaces
- Breathable air production unit to feed ventilated equipment
- Waste bags to collect contaminated products
- Adhesive ribbons for any kind of joint/marking in a contaminated environment
- All kinds of surface protection film...





REFERENCES	NAMES	DESCRIPTIONS	COLORS	SIZES	EN 943-1	EN 1073	M1	M2	Type 3	Type 4	Type 5	EN 1149-5	Ex	CHAPTERS	PAGES
CC8416XYT	Mururoa™ Reinforced	Air-fed single-use coverall	White	2 to 5			x							Nuclear industry	21
CC8431XYT	MAR95-3	Air-fed single-use coverall	Pink	2 to 5			x		x					Nuclear industry	22
CC8481X1T	Mururoa V4F1	Air-fed single-use coverall	Pink/Natural	0 to 5			x		x					Nuclear & Pharmaceutical industries	22
CC8527XY9	Gridel AP	Air-fed single-use hood	Pink/Natural	One size			x		x		x			Nuclear & Pharmaceutical industries	23
CC85589X9	Gridel PAPR	Self-fed single-use hood	Pink/Natural	One size			x		x		x			Nuclear & Pharmaceutical industries	23
CC840060T	Frog	Single-use coverall (non ventilated)	White	1 to 5			x					x		Nuclear & Pharmaceutical industries	24
CC9480XYZT	Hapichem™	Single-use coverall	White	1 to 5			x			x	x		x	Chemical & Pharmaceutical industries	25
CC8Y0X07T	Easychem	Reusable coverall	Orange	1 to 4			x							Chemical industry	26
CC84862X9	BSL4	Reusable coverall	White	Made to measure			x							Lifescience	26



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THE POWER OF **CONNECTED**