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## GENERAL DATA

**Division:** Body Protection  
**Family:** Professional clothing  
**Sub family:** Sperian Protection Clothing

**Activity domains:** chemical, pharmaceutical, petrochemical, water treatment industries, fire-fighters brigades...

**Product use:**  
 Hazmat suit for being used when the worker has to be protected in an accidental or short maintenance situation where to face unknown liquid or gaseous chemicals risks thanks to SCBA and the full suit.

## PRODUCT ADVANTAGES

- Resistant and durable by high frequency welding
- Air being exhaled at the inside of the suit for high contamination protection efficiency
- Comfortable thanks to heat stress reduction (ventilation outside)
- Light weight: 6 kg
- High protection factor through its supply breathing air and its magnetic valves: continuous overpressure protection
- Ergonomic and resistant boots: welded boots for higher safety
- Easy to change the gloves thanks to the special rings fixation

## TECHNICAL DESCRIPTION

1. Comfortable respiratory mask (Sperian panoramasque class 3 and compliant with EN-136 standard)
2. Zip fastener waterproof protected by a flap from crotch to head.
3. Two single magnetic patented exhaust valves: one located on the breast and one on the top of the head
4. Safety boots (boots EN ISO 20345 (2004) S5)
5. Hard wrist for gloves fixing

▪ **Composition:**

- Raw material double-side coated polyester, with specific flame-retardant compound 610g/sqm
- Butyl Gloves (Powercoat 08010 butyl) or PVC Gloves (Deltasoft)
- PVC Boots

▪ **Color:**

- **Suit:** Orange / **Boots:** White or Green / **Gloves:** Black (butyl) ; Green (pvc)

▪ **Size:**

- **Suit:** from S (1) to XL (4)
- **Safety boots:** S (T40-41) – M (T42/43) – L (T44) – XL (T45-47)
- **Gloves:** standard size: 9/9.5 – Also available: size 10/10.5

REFERENCE	HEIGHT (cm)	WAIST SIZE (cm)	CHEST SIZE (cm)
T=1 (S)	164-170	64-68	76-140
T=2 (M)	170-176	68-72	76-140
T=3 (L)	176-182	72-76	76-140
T=4 (XL)	182-188	76-80	76-140

▪ **Packaging:**

- Each suit in a single Sperian bag (including gloves, O-rings, adhesive roll and user instructions)

▪ **Limitation of use:**

- HazMat clothing
- Suit can be used in temperatures of -30°C in +72°C. Never use the suit near fire or near heat sources.

## ADDITIONAL INFORMATIONS

### Suit performances:

#### Chemical performances:

EN374-3 (2004) : Liquid permeation	Easychem 1b-F
Sodium hydroxide (50%)	Class 6/6
Sulfuric Acid (50%)	Class 6/6
Sulfuric Acid (98%)	Class 5/6
Fluorhydric Acid (70%)	Class 2/6
Chlorhydric Acid (37%)	Class 6/6
Phosphoric Acid (50%)	Class 6/6
Methanol	Class 4/6
Trichlorethylene	Class 1/6
Acetonitrile	Class 2/6
O-xylene	Class 2/6
Hexan	Class 3/6
Kerosene	Class 6/6
Sodium hypochlorite (14% chlorine)	Class 6/6

#### Gloves performances:

EN374-3 (2004) : Liquid permeation	Butyl Gloves (black)	PVC Gloves (green)
Sodium Hydroxide (50%)	Class 6/6	
Sodium Hydroxide (30%)		Class 2/6
Acetone	Class 6/6	
Ethyl Acetate	Class 4/6	
Glutaraldehyde (5%)		Class 6/6

#### Mechanical resistances:

Standards	Test-Resistance	Easychem 1b-F
NF EN ISO 7854: 12/97 Method B	Flex cracking	Class 5/6
NF EN ISO 7854: 12/97 Method B	Flex cracking at -30°C	Class 6/6
NF EN 863: 01/96	Puncture	Class 4/6
NF EN 530: 02/95 Method 2	Abrasion	Class 6/6
NF EN ISO 13934-1 (99)	R tensile strength Cross direction	Class 6/6
NF EN ISO 9073-4: 11/97	R tear T	Class 4/6
NF EN ISO 3071 (2006)	pH	Conform
NF EN ISO 3071 (2006)	pH	Conform
	Formol	Pass
EN 13 274-4: 2001 Method 3	Ignition/Flame	Conform
NF EN ISO 13934-1 (99)	Elongation at break Cross direction	29 %
NF EN ISO 13934-1 (99)	Elongation at break machine direction	25 %
NF EN ISO 9073-4: (97)	R tear M	71.2 N
NF EN ISO 13934-1 (99)	R tensile strength (machine direction)	2038 N

### Warning:

- Never disconnect the mask of the suit

### Care instruction:

- Be sure that the decontaminated and inspected suit was subjected to a test of pressure before putting back in service or in store

### Storage information:

- Keep equipment in the original packaging in a cool and dry place, not dusty, far from heat sources and far from direct light. (+5°C/+45°C). Carefully follow the instruction on the label

## CONFORMITY AND CERTIFICATION

### EC Category PPE: 3\*

### Standards:

**EN 943-1 (2003):** Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles  
**Type 1B:** Performance requirements for ventilated and non-ventilated “gas-tight” chemical protective suits with a breathable air supply, e.g. a self-contained open-circuit compressed air breathing apparatus, worn outside the chemical protective suit



### European Directives:

89/686/EEC

### EC Certification Number:

N° 0072/197/162/07/08/0083

### Quality Assurance:

ISO 9001 / 2000

### The manufacturer or its legal representative supplier settled in the European Community:

SPERIAN PROTECTION CLOTHING

### Delivered by:

IFTH  
 Avenue Guy de Collongue  
 69134 Ecully Cedex

\*PPE Category 3: Personal Protective Equipment with a design complex, designed to protect against the serious or fatal risks.  
 Made of 31/10/2008