BODY PROTECTION & WORKWEAR · PREMIUM & SPECIALISED (HSE-MANDATED)

Chemical-Protective Suits (Type 3/4 & Type 1)

Chemical-protective suits are coveralls or fully encapsulating garments made from barrier films or coated fabrics that are tested to EN 14605 (Type 3 jet-tight, Type 4 spray-tight) or EN 943 (Type 1 gas-tight) to keep hazardous liquids and gases off the skin.

TECHNICAL SPECIFICATIONS	
Standards	EN 14605:2005+A1 (Type 3/4); EN 943-1:2015, EN 943-2:2019 (Type 1); EN ISO 13982-1 (Type 5); EN 13034 (Type 6); EN 1149-5; EN 14126
Fabric	Multi-layer polyethylene barrier film, PVC-coated polyester, or butyl/Viton laminate for Type 1
Permeation	Tested to EN ISO 6529; breakthrough classes 1–6, many fabrics Class 6 (>480 min) against listed chemicals
Seams	Stitched and taped, or ultrasonically welded and taped
Closure	Front zip with double storm flap; gas-tight zip on Type 1
Sizes	S to 3XL; Type 1 suits sized by height range
Colours	Yellow, orange, grey, lime; Type 1 suits typically orange or yellow
Packaging	Individually bagged; carton of 6–25 for Type 3/4; Type 1 in storage bag with inspection log

Key features

- Type 3 and Type 4 suits to EN 14605:2005+A1:2009 with welded or taped seams and double-flap zip cover
- Multi-layer barrier film fabrics give over 480 minutes breakthrough against many acids, bases and solvents
- Type 1a and 1b gas-tight suits to EN 943-1 and EN 943-2 ET for emergency teams with SCBA inside or outside
- Attached socks, boots or boot flaps and elasticated or glove-ring wrist seals for a liquid-tight interface
- Antistatic treatment to EN 1149-5 and optional EN 14126 infective-agent protection on selected models
- Wide PVC visor and exhalation valves on encapsulating suits for visibility and pressure control

Variants available

- Type 3/4 limited-use hooded coverall with attached socks
- Type 3 PVC-coated reusable suit with hood and boot flaps
- Type 3/4 two-piece jacket and bib trousers for cleaning crews
- Type 1a gas-tight suit with SCBA worn inside
- Type 1b gas-tight suit with SCBA worn outside
- Chemical splash apron and sleeve set

TYPICAL APPLICATIONS	
Oil & gas	hydrocarbon and H2S area maintenance, chemical injection skids and tank cleaning at ADNOC and Aramco sites
Petrochemical	catalyst handling, acid washing and turnaround cleaning at Jubail, Ruwais and Yanbu complexes
Water & utilities	chlorine gas and hypochlorite handling at desalination and treatment plants
Emergency response	HAZMAT and Civil Defence teams responding to spills and gas releases
Industrial cleaning	high-pressure jetting, tank entry and solvent degreasing contractors
Logistics	chemical terminal, drum filling and tanker loading operations at Jebel Ali and Dammam ports

COMPLIANCE, BRANDS AND SELECTION

Compliance (UAE / GCC)

Chemical suits are Category III PPE under EU Regulation 2016/425 and must carry CE marking with the notified body number, with the suit type (1 to 6) shown in the pictogram. UAE buyers, Dubai Municipality and Abu Dhabi OSHAD inspectors typically expect the EU type-examination certificate, user instructions and the fabric permeation data sheet to be held on site alongside the chemical risk assessment and safety data sheets.

Brands we supply

DuPont Tychem, 3M, Lakeland, Dräger, Ansell AlphaTec, Honeywell

How to choose

1. Identify the chemicals, concentration and exposure form, then check the fabric's EN ISO 6529 breakthrough time for each
2. Choose Type 3 for pressurised jets or immersion risk, Type 4 for spray and saturated contact, Type 1 for toxic gas and vapour
3. Plan for heat stress: barrier suits trap heat, so schedule shorter work periods and cooling vests in Gulf summer
4. Match gloves, boots and respiratory protection to the suit interface so the seal is complete at wrists, ankles and face

Request a quotation
Send quantity, sizes and delivery location. We reply with an itemised quotation and certificates within one working day.
WhatsApp / call +971 54 541 4145 · faizal@albarakaservices.com
Product page: albarakaservices.com/products/safety-products/chemical-protective-suits/

Typical specifications for this product class, compiled by Al Baraka Diyar for quotation and tender preparation. This is not a manufacturer datasheet. Exact values, markings, sizes and certificates depend on the brand and model supplied and are confirmed in our quotation and in the manufacturer's test certificates. Always verify suitability with your site HSE officer. Information is subject to change without notice.