



RESPIREX™

Living + Breathing Personal Protection



RJS RESPIRATORY & CHEMICAL PROTECTIVE SUIT

For use with the 3M™ Jupiter™ Powered Respirator



RJS Respiratory and Chemical Protective Suit

The RJS 300 Chemical Respirator Suit is a one-piece Type 3 chemical protective suit for use in hazardous industrial and emergency response environments.

Manufactured from Chemprotex™ 300, a high-performance, lightweight, chemical barrier fabric, the RJS suit protects the wearer against a broad range of industrial chemicals and other agents found in civil emergency situations.



Applications:

- Liquid chemical and solvent handling
- Hazardous waste remediation
- Asbestos abatement
- Petrochemical applications
- Pharmaceutical manufacture
- Laboratories
- Agriculture
- Infection control
- Mass decontamination
- Hospital first receivers
- Emergency Medical Service
- Casualty Transport
- Triage



Suit Features:

- Air drawn through the filters enters through a breathing tube in the hood and exits through exhaust valves in the knees, providing a cooling air stream across the body
- Chest zip with double storm flap and VELCRO® brand hook and loop closure - no taping required to seal
- Chemically protective laminated glove welded to the suit material, with elasticated over-sleeve for use with gloves providing mechanical protection without the need for taping of gloves
- Integral sock foot with elasticated outer leg allows the user to choose their own boots without compromising the level of protection
- Head-up display in the hood indicates turbo status, hours used and any warnings
- Suit achieves a Type 3 classification without the need for taping at the zip flap, sleeves or ankles, simplifying the donning & doffing process



Sock foot & outer elasticated leg



Elasticated outer sleeve & inner glove



Certification:



Type 3



Type 4



Type 5



Type 6



Infective Agents



Respiratory Protection

TYPE 3, EN 14605:2005+A1:2009
Liquid-Tight Chemical Protective Clothing

TYPE 4, EN 14605:2005+A1:2009
Spray-Tight Chemical Protective Clothing

TYPE 5, EN 13982-1:2004+A1:2010
Particulate Protective Clothing

TYPE 6, EN 13034:2005+A1:2009
Limited Spray-Tight Chemical Protective Clothing

EN 14126:2003
Protective Clothing Against Infective Agents

EN 12941:1998+A2:2008 APF 40, NPF 500*
Respiratory Protective Devices

*Additional testing to EN 1073-1:1998 demonstrated that a Total Inward Leakage (Respiratory Zone of less than 0.002%) was achieved, relating to a Nominal respiratory Protection Factor of 50,000.

Benefits:

- Lightweight suit design with backpack mounted powered respirator provides excellent wearer comfort
- Respirator and loose-fitting hood provide cooling air over the head and through the suit, reducing heat stress and making the wearer more comfortable and better able to focus on tasks
- The loose-fitting hood design provides high protection without the need for a tight-fitting face piece, which means:
 1. Many wearers feel less constricted
 2. Can be used by wearers with facial hair or glasses
 3. Training needs are reduced
 4. Face-fit testing is not required
- Compared to a gas-tight suit with SCBA, the suit and respirator is significantly lighter and more comfortable, with far greater operational duration.
- Greater freedom of movement and operational independence than when using air-fed suits with an airline
- In medical and emergency response applications the clear wide-view visor provides reassurance to casualties and victims by allowing easier, friendly 'whole-face' communication





3M™ Jupiter™ Powered Respirator

The Jupiter turbo unit in the RJS suit provides respiratory protection against a wide range of contaminants. An ergonomically designed padded backpack ensures the unit's low weight is comfortably carried on the user's shoulders. As a result, the Jupiter powered air turbo unit is comfortable enough to wear for entire work shifts.

- Head-up display indicates turbo status, hours used and warnings
- Audible and visual low airflow alarm
- Easy to adjust and maintain
- IP53 rating. Suitable for use in a decontamination shower.
- Choice of battery packs with up to 8 hours operational use
- Range of filters available offering protection from particulate, organic vapour, inorganic and acid gases, ammonia and CBRN hazards

3M™ Jupiter™ Filter Options

- **P R** - Particulates
- **A2P R** - Organic vapours and particulates
- **A2BEK1P R** - Combination organic vapours, inorganic and acid gases & ammonia and particulates
- **ABE1P R** - Combination organic vapours, inorganic and acid gases and particulates

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RJS Respiratory and Chemical Protective Suit - System Components

| Item | Description | Pack Qty |
|---------------------------------|---|----------|
| Suits | | |
| RJS300-X* | RJS 300 Chemical Protection Suit (Blue) | 1 |
| Powered Respirator | | |
| F01124 | Turbo, Backpack, Head-up Display, Filter Retainers & Breathing Tube | 1 |
| Batteries | | |
| F01128 | Single-use 4-Hour Battery - Bat-22 | 1 |
| F01126 | Rechargeable 4-Hour Battery | 1 |
| F01127 | Rechargeable 8-Hour Battery | 1 |
| Filters | | |
| F01131 | Particulate P R Filters (pairs) | 12 |
| F01133 | A2P R Filters (pairs) | 6 |
| F01132 | A2BEK1P R Filters (pairs) | 6 |
| F01134 | ABE1P R Filters (pairs) | 6 |
| Spares & Accessories | | |
| F01136 | Back Pack | 1 |
| F01137 | Breathing Tube | 3 |
| F01129 | Intelligent Battery Charger - CHG-02 | 1 |
| F01130 | Intelligent 10-Station Battery Charger | 1 |
| F00935 | Filter Retainers (pair) | 1 |

* Substitute X for the size, e.g. S, M, L, XL, XXL

N.B. There are uses, environments and chemicals for which this garment is unsuitable. It is the responsibility of the user to review available data and verify that the garment is appropriate for the intended use and meets all specified government industry standards.

For chemical permeation data for the Chemprotex™ range of fabrics, please visit the Respirex website.

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