

3M™ Hood with Inner Helmet FH-51

Technical datasheet

Description

3M™ Hood with Inner Helmet FH-51 combines respiratory protection, eye and face protection and head protection. The hood is designed to be used with an approved 3M air delivery unit to form a respiratory protective device.

- Hood meets the highest respiratory performance requirements when used with specific 3M air delivery units
- Inner helmet meets the mechanical requirements of EN 397:2012 + A1:2012
- Visor provides eye and face protection to EN 166:2001 – medium energy impact
- Hood incorporates taped seams and is intended for liquid chemical splash environments



Approved Combinations

	FH-51
PF-602E	SS-BT-23 SS-BT-44 SC-BT-44L

Applications

3M™ Hood with Inner Helmet FH-51 can be used with an air-filtering unit to form a powered air respirator system. According to the system chosen (i.e. filters), protection is provided against:

- Particles e.g. fine dusts, mists and metal fume
- Gases and vapours
- Particles and gases combined

Typical industries include:

- Medical and healthcare
- Pharmaceutical
- Manufacturing
- Agriculture
- Food and beverage
- Pulp and paper processing
- Surface preparation and coating
- Chemical industry
- Woodworking
- Nuclear

Standards and Approvals

3M™ Hood with Inner Helmet FH-51 meets the performance requirements of the following European standards:

Eye and face protection to EN 166:1:B (Optical class 1, medium energy impact B). Respiratory Protection to EN 12941:1998 + A2:2008 (see Technical Specification section for more information)

The Certificate and Declaration of Conformity are available at the following website www.3M.com/Respiratory/certs

Limitations

- In atmospheres containing less than 19.5% oxygen
- Confined spaces (lack of ventilation)
- When the risk is considered to be Immediately Dangerous For Life Or Health (IDLH)
- If connected to Powered Air Turbo, when the concentration of contaminant is above 40 times the Workplace Exposure Limit (WEL)

Materials

Component	Material
Headtop fabric	Chlorosulphonated polyethylene coated polyester
Visor	Polycarbonate
Helmet	Acrylonitrile Butadiene Styrene
Breathing Tube SS-BT-23	Polyurethane
Breathing Tube SS-BT-44 & SC-BT-44L	Ethylene Propylene Diene Monomer

Technical Specifications

Assigned Protection Factor = 40

- EN 12941 TH3 when connected to 3M™ PF-602E Powered Air Turbo

Note: APF = Assigned Protection Factor (For information on APFs see HSE document HSG53). Please contact 3M for further information.

Storage Conditions

-10°C to +50 °C < 75% RH

Operating Temperature

-10°C to +50 °C

Shelf life*

5 years from date of manufacture

Weight

930g

* The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.

Spare parts and accessories

Part Number	Description
FH-931	Spares pack including lock nut (x5), support washer (x5) and valve flaps (x2)
FH-933	Spare outer hood
SS-BT-23	Fixed Length Breathing Tube
SS-BT-44	Heavy Duty Breathing Tube
SC-BT-44L	Heavy Duty Breathing Tube

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation. Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage.

For more information on 3M products and services please contact 3M.