

Technical data sheet



Product: Versaflo S-Serie

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ARBEITSSCHUTZ

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3M VERSAFLO S-SERIES HEADCOVERS & HOODS

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3M™ Versaflo™ S-Series Headcovers and Hoods

Description

The 3M™ S-Series Headcovers and Hoods combine respiratory protection with head, or head, neck and shoulder coverage. Additionally, these headtops also provide eye and face protection. The headtops are designed to be used with an approved 3M air delivery unit to form a respiratory protective device.



S-Series headtops:

- Are approved with the 3M™ Versaflo™ TR-302E+, TR-602E and TR-802E Powered Air Turbo Units, meeting the TH3 performance requirements of EN 12941:1998 + A2:2008
- Certain models (S-655, S-657, S-757 and S-855E) are approved with 3M™ PF-602E+ Powered Air Turbo Units
- Are approved with the 3M™ Versaflo™ V-100E Cooling Unit, V-200E Heating Unit and V-500E Regulator, meeting the 3A performance requirements of EN 14594:2018¹
- Visors provide eye and face protection to EN 166 :2001 – liquid splash and low energy impact
- Connect via approved 3M™ Versaflo™ BT-20S/BT-20L, BT-30 and BT-40 Breathing Tubes

Integrated head suspension headcovers and hoods:

- Ready to use out of the box
- Available in two adjustable sizes S/M and M/L
- Exhalation panel vents the headtop

Premium reusable suspension hoods:

- Adjustable head circumference and crown size straps
- Optional size reducing comfort pad
- External airflow adjustment control

¹. The maximum Compressed Air Supply Tube length allowed for 3A classified systems is 10m.

Applications

The S-Series headtops can be used with an air-filtering unit to form a powered air respirator system or with a regulator to form a supplied air respirator system. According to the system chosen, 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

Standards and Approvals

The S-Series headtops meet the performance requirements of the following European standards:

Eye and face protection to EN 166:2001 (Optical class 2, low energy impact F and liquid splash 3).

Respiratory Protection to EN 12941:1998 + A2:2008 and EN 14594:2018 (see Technical Specification section for more information).

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

Limitations

Not to be used:

- For asbestos removal
- In atmospheres containing less than 19.5% oxygen
- In 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 500 times the Occupational Exposure Limit (OEL)
- If connected to regulators, when the concentration of contaminant is above 200 times the Occupational Exposure Limit (OEL)

Materials

- Headtop fabric – see S-Series Headtops Materials table
- Visor – Polycarbonate
- Visor peel-offs – Polyester
- Integrated suspension headcovers and hoods:
 - Head suspension – Polyethylene
 - Air inlet – Polypropylene

- Premium Reusable Suspension Hoods:
 - Head suspension – Polyethylene
 - Air channels – Polypropylene
 - Air inlet – ABS
 - Visor attachment clips – Nylon
 - Airflow adjustment cover – Nylon
- Comfort pad – Nylon scrim upper/polyurethane foam
- Size reducing comfort pad – Nylon scrim upper/ polyurethane foam/nylon scrim lower
- Breathing tube BT-20S/L – Polyurethane with steel helix
- Breathing tube BT-30 – Polyurethane with acrylonitrile butadiene styrene helix
- Breathing tube BT-40 – Chloroprene
- Breathing tube cover BT-922 – Polyethylene

i IMPORTANT NOTE

For disposal, plastic and fabric parts can be quickly removed and separated for segregated waste streams, where facilities are available.

Table 1: S-Series Headtops Materials

Materials	S-133S/L and S-433S/L	S-333SG/LG and S-533S/L	S-655	S-657	S-757	S-855E
Headtop fabric	Spun bond polypropylene laminated to polypropylene film	Polyurethane coated knitted nylon	Spun bond polypropylene laminated to polypropylene film		Spun bond polypropylene laminated to both sides of polypropylene film	Spun bond polypropylene with multilayer barrier film
Exhalation panel fabric	Spun bond polypropylene		N/A			N/A
Elastic/collar material	Nylon/elastane face seal		Knitted cotton yarn/elastic collar	Nylon/elastane elastic		Knitted polyester

Technical Specifications

Nominal Protection Factor = 500:

- EN 12941:1998 + A2:2008 TH3 when connected to 3M™ Versaflo™ TR-802E, TR-602E and TR-302E+ Powered Air Turbos.
- S-655/S-657/S-757/S-855E: EN 12941:1998 + A2:2008 TH3 when connected to 3M™ PF-602E+ Powered Air Turbo

Nominal Protection Factor = 200:

- EN 14594:2018 3A when connected to V-100E, V-200E or V-500E Regulators²

² The S-Series headtops meet the lower strength (A) requirements of EN 14594. They are approved for use with Compressed Air Supply Tubes that meet the lower and higher strength (A and B) requirements, up to a maximum length of 10m.

IMPORTANT NOTE

The Nominal Protection Factor is a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective device. This may not be the level of respiratory protection that can be realistically expected in the workplace by wearers. Many countries apply Assigned Protection Factors (APFs) for example UK and Germany. Employers may apply a value lower than the NPF/APF if deemed applicable. Please refer to EN 529:2005 and National workplace protection guidance for application of these numbers in the workplace. Please contact 3M for further information.

Storage Conditions:

-30°C to +50°C

< 90 %RH

Operating temperature:

-10°C to +55°C

Shelf life³ :

3 years from date of manufacture

Weight (without breathing tube):

S-133S = 100g S-133L = 110g

S-333SG = 125g S-333LG = 130g

S-433S = 130g S-433L = 135g

S-533S = 170g S-533L = 185g

S-655 = 310g S-657 = 310g

S-757 = 315g S-855E = 375g

Spare Parts and Accessories

Table 2: S-Series Headtops Spare Parts and Accessories

Part Number	Description
S-605-10	Replacement fabric for S-655
S-607-10	Replacement fabric for S-657
S-707-10	Replacement fabric for S-757
S-805E-5	Replacement fabric for S-855E
BT-20S/L	Lightweight breathing tube (small/medium or medium/long)
BT - 30	Self-adjusting breathing tube
BT - 40	Heavy duty breathing tube

³ 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.

Part Number	Description
BT-922	Disposable breathing tube cover
S-955	Airflow adjustment cover
S-956	Air duct sealing ring
S-957S/L	Comfort pad – small/large (for integrated head suspension headcovers and hoods)
S-953	Comfort pad (for premium head suspension hoods)
S-954	Size reducing comfort pad (for premium head suspension hoods)
S-920S/L	Visor peel-offs – small/large (for integrated head suspension headcovers and hoods)
S-922	Visor peel-offs (for premium head suspension hoods)
BT-957	Storage plugs (for BT-20S/L, BT-30 and BT-40 breathing tubes)

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.



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