



Virustatic® Shield™ AVM96

Anti-viral 360° Protective Face Mask

Technical Data Sheet

Version TDS001 13/4/20



Description

The Virustatic Shield complies with the following respiratory standard: BS EN 149.2001 and has been classified as FFPR 2 in conformity with the Essential Health & Safety Requirements (Class II) and provisions of PPE Regulation (EU) 2016/425 and recommendation (EU) 2020/403 respirators only for use against airborne aerosolised viruses. They provide effective respiratory protection for the user of >95% of influenza virus capture.

Product summary

Product code	AVM96
Material	Bamboo or Viscose/Elastane blends
Active product	The Active coating's MeSH Pharmacological Classification is Anti-Infective Agents that classifies as substances that prevent infectious agents or organisms from spreading or kill infectious agents in order to prevent the spread of infection
Classification	Class 2 PPE (FFPR 2)
Standards	BS EN 149.2001

Applications

The Virustatic Shield has been developed primarily to reduce pathogenic microbial intake into the human respiratory system. Inhalation of these microbes have been inappropriately added to respiratory protective equipment regulations principally designed to protect the user from toxic particulates.

Consequently, please note that the Virustatic Shield is not suitable for use in concentrations of solid (dust) particles and/or volatile/non-volatile liquid particles.

A mask FFP1/2/3 could be used in unison with the Virustatic Shield to meet the BS EN 149.2001 regulatory standards.

Product code	Classification	Standard
AVM96	FFPR 2	BS EN 149.2001

Filter penetration

The filter penetration of live viruses, shall not exceed the following limits:

EN 149:2001+A1:2009 Classification	Maximum Filter Penetration
FFP 2	6%

Standards

Virustatic Shield Ltd maintains that the Virustatic Shield fundamentally complies with the requirement of BS EN 149.2001 and classification FFPR 2 in that it stops over 95% of aerosolized influenza viruses from passing through the mask. It does not make any claims regarding particulates listed 1-7 below.

- 1 Vapours generated by petrol, solvents, thinners, paints and varnishes
- 2 Gases such as chlorine, ammonia and carbon monoxide
- 3 Solids and dusts such as powdered chemicals, flour, cement dust, silica dust from stone, wood dust, lead dust, engine exhaust particles, shot blasting dusts
- 4 Solids that produce dangerous gases with moisture – for example, phosphide – or which give off vapours, such as phenol
- 5 Fumes arising from welding, soldering and burning metals
- 6 Fibres such as asbestos, glass wool and refractory ceramic fibres
- 7 Mist and sprays such as battery acid mist from re-charging or from tasks such as paint spraying or use of metalworking fluids
- 8 Bacteria, viruses and parasites

Exposure to these substances can cause a wide range of serious ill-health conditions, some of which can prove fatal. For example, silica dust – which is found in stone such as concrete – can cause silicosis, a disabling lung disease; while lead dust and fumes – created during certain soldering activities, for instance – can cause problems such as kidney damage. Meanwhile, exposure to certain respiratory sensitizers – such as isocyanates found in certain paints, flour, grain and wood dust, and resins – can cause occupational asthma.

In-line with the objectives provisions of PPE Regulation (EU) 2016/425 and recommendation (EU) 2020/403 and various recommendations by the EU commissioners to provide protective equipment for the SARS-CoV-2 Pandemic Virustatic self certified the Virustatic Shield as being in compliance with the above mentioned EU recommendations.



Breathing information


The fabric is lightweight, single layer and low pressure drop that does not impact on increased breathing rates. Breathable by design, the Virustatic Shield is made predominantly from natural materials and can be worn for long periods of time.

Safety information

Extinguishing media	Any fire extinguisher
Allergies	Not recognised as allergenic
Conditions to avoid	Avoid temperatures in excess of 40°C and conditions with high humidity
Disposal	Processed mixed textile fibres
Transport	Not regulated as a hazardous material
Safety	Non-dangerous product in normal conditions of use

Component and materials

Component	Material
Fabric	Textiles of 100% Bamboo, or Viscose/Elastane blends
Coating	GRAS certificated natural protein

Product	Typical weight
 AVM96	Pack weight 35g

Hazards identification

The mask is made from materials Generally Regarded As Safe. It is a non-dangerous product in normal conditions and proteins in the coating are suitable for human ingestion.

Toxicology information

Product is classed as non-toxic in normal use.

First Aid Measures

In case of skin irritation Stop wearing the Virustatic Shield, if symptoms of irritation persist seek professional medical advice.

Disposal

Dispose of as waste from processed mixed textile fibres.



Warnings and Limitations

- DO NOT machine wash
- DO NOT iron
- DO NOT tumble dry
- DO NOT cut or pierce the fabric
- DO NOT use detergents on the Shield
- DO NOT use perfumes on the Shield
- DO NOT use anti-bacterial products on the Shield
- DO NOT use fresheners on the Shield

Leave to air dry naturally.

Product should be stored in clean, dry conditions within the temperature range: - 20°C to + 40°C with a maximum relative humidity of <80%.



Approvals

Virustatic Shield Self Certification

Class II: The Device complies with the following respiratory standard: BS EN 149.2001 and has been classified as FFPR 2 in conformity with the Essential Health & Safety Requirements (Class II) and provisions of PPE Regulation (EU) 2016/425 and recommendation (EU) 2020/403

Classification



Classified as Class II and is in conformity with the Essential Health & Safety Requirements (FFPR 2) and provisions of PPE Regulation (EU) 2016/425.

Classification criteria

Class II

The Device complies with the following respiratory standard: BS EN 149.2001 and has been classified as FFPR 2 in conformity with the Essential Health & Safety Requirements (Class II) and provisions of PPE Regulation (EU) 2016/425 and recommendation (EU) 2020/403

Certifications

Manufactured in the United Kingdom in an ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 certified plant. Certified STANDARD 100 by OEKO-TEX®.



Fitting instructions

Before fitting the Shield please ensure hands are clean.

Please inspect the fabric for damage prior to use.

1. Check your Shield is a genuine product
2. Carefully remove the Shield from the wrapper
3. Discard packaging, recycle where possible
4. Pull the Shield down over you head
5. Cover mouth, nose and ears
6. Make sure the Shield is tight
7. If loose, tie with a hair band or clip at the back
8. For a tighter fit, fold the Shield inside itself
9. Pull Shield over your head with the fold at the bottom

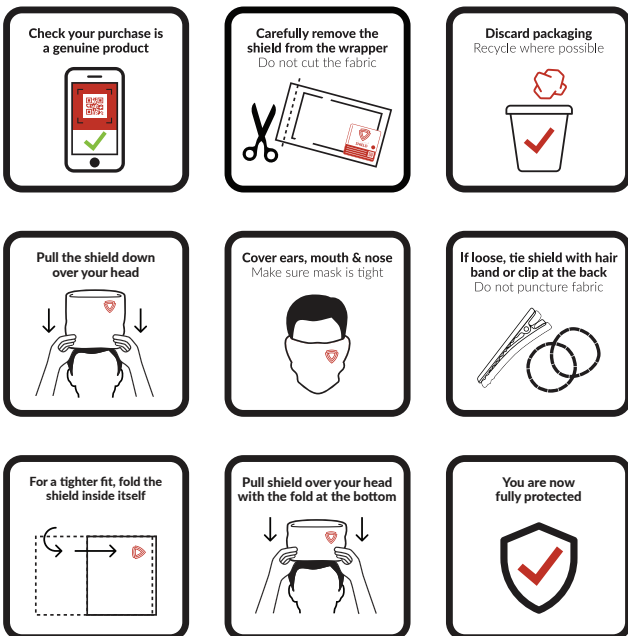
To wear like a balaclava see instructions below

NOT EFFECTIVE unless you have achieved a proper fit with your mouth and nose fully covered.

DO NOT use until you have achieved a proper fit with your mouth and nose covered.

For younger children or persons unable to fit the Shield correctly, in accordance to the fitting instructions above, should request assistance from an adult.

Figure 1.



To wear like a balaclava



Cleaning instructions

The Virustatic Shield is multi-use for extended periods of time. We recommend washing where appropriate at the discretion of the user or in alignment with the usage risk assessment.

The product can be hand washed 3 times in warm water without detergent.

Our recommendation is conservative and is based on testing and an analysis of the available science.

Hand washing will restore the Shield to its original shape and fit after prolonged use.

Important information

All information and specification details contained within this document are inherent to this specific Virustatic 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 Virustatic product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures).

Virustatic Shield Limited would not be held responsible for the consequences of any violation of the rules outlined in this document which remain external to its decision and control.

Warranty conditions for Virustatic products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

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