

3M™ WP-Series Protective Faceshields

Technical datasheet



Product description

The 3M™ WP-series Protective Faceshields are a range of helmet or headgear mounted faceshields designed to meet the requirements in various industrial applications. The range includes a selection of sizes and materials offering protection from various optical hazards, liquid splashes, molten metal and flying particles.

Product range

Product ID

3M™ WP96: Clear Polycarbonate faceshield

3M™ WP98: Clear Cellulose Acetate faceshield

3M™ X5000, X5500: 3M™ SecureFit™ Helmets

3M™ G3000, G22 and G3501: Helmets

3M™ H8: Headgear

3M™ U5B and 3M™ U3-E: Linkage System

Key features

- ▶ The WP-series faceshields are designed to be used with a wide range of 3M™ Safety Helmets
- ▶ For fast replacement, the WP-series faceshields feature an easy to use "snap in" connection with the faceshield holders U3-E or U5B and headgear H8
- ▶ WP96 is a robust 1.8mm thick moulded polycarbonate faceshield typically used when face protection is required against high speed particles and or molten metal splashes.
- ▶ WP98 is a 1.0mm thick flat sheet acetate faceshield typically used in the chemical industry to protect against liquid splashes.

Typical applications

- ▶ General industry
- ▶ Chemical industry
- ▶ Construction
- ▶ Metal working

Size (mm)

Diagram	Model	A	B
	WP96	229	263
	WP98	232	378*

* Unmounted in faceshield holder

Model	Thickness	Weight
WP96	1.8mm	149g
WP98	1.0mm	97g

Materials

Component	Material
WP96	Polycarbonate
WP98	Cellulose Acetate

Standards and approvals

The 3M™ WP-series Protective Faceshields meet the requirements of the PPE Regulation (EU) 2016/425 and are thus CE marked.

The products have been examined by DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstrasse 56, 12103 Berlin, Germany (Notified body number 0196).

The 3M™ WP-series have been tested and approved in accordance with EN 166:2001.

Performance

The table below summarises the 3M™ 5-series and X5-series Protective Faceshield specifications according to EN 166.

Model	Filtering perf.	Optical clarity	Impact perf.	Fields of use	Optional requirements
WP96	2C-1.2	1	B	3, 9	N/A
WP96	2C-1.2	1	F	3	N/A

Filtering performance:

2C-1.2 = UV filter, Shade 1.2 (EN 170)

Optical clarity:

The allowable variation in refractive powers for oculars is assessed during certification of the product. Class 1 is the highest performance class for optical clarity.

Impact performance:

WP96 meets the requirement for protection against high speed particles for medium energy impacts, marked B (120m/s). WP98 meets the requirement for protection against high speed particles for low energy impacts, marked F (45m/s).

Fields of use:

The WP-series faceshields meet the optional requirements for protection against liquid splash, marked 3. In addition, WP96 meets the requirement for protection against molten metal, marked 9.

Use and storage

Temperature range for usage	-30° C to +50° C
Recommended storage conditions	+3° C to +40° C, <85% humidity
Maximum recommended product life	Up to 5 years from date of manufacture*

* The product life as defined above is indicative data. The product life is subject to many external and non-controllable factors and should not be interpreted as a warranty.

Use limitations

- ▶ Where the faceshield and frame markings do not match the lowest level of protection applies
- ▶ Scratched or damaged oculars should be replaced immediately
- ▶ Eye-protectors against high speed particles worn over standard ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer. Do not use this product against hazards other than those specified in this document
- ▶ Never modify or alter this product

Compatibility

The faceshield holders U3-E and U5B are connected to the helmets and headgear through a 3M™ P3E earmuff or a P3E adapter if hearing protection is not required. The following combinations of faceshield, faceshield holder and helmet/headgear are approved:

Model	U5 + X5000 / X5550	U3-E + G3000	U3-E + G22	U3-E + G3501	H8
WP96	✓	✓	✓	✓	✓
WP96	✓	✓	✓	✓	✓

✓ = approved

Important notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

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