

3M™ 5-series and X5-series Protective Faceshields

Technical datasheet



Product description

The 3M™ 5-series and X5-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 shades offering protection from various optical hazards, chemical splashes and flying particles.

Product range

Product ID	Description
3M™ 5E-11	Green polycarbonate faceshield
3M™ 5F-11	Clear polycarbonate faceshield
3M™ 5A-CP	Clear acetate faceshield
3M™ X5-SV01	Clear polycarbonate short faceshield
3M™ X5-SV02	Grey polycarbonate short faceshield
3M™ X5-SV03	Amber polycarbonate short faceshield
3M™ X5000, X5500	3M™ SecureFit™ Helmets
3M™ G3000, G22 and G3501	Helmets
3M™ G500	Headgear
3M™ V5 or 3M™ U5B	Linkage system

Key features

- ▶ The 5-series and X5-series faceshields are designed to be used with a wide range of 3M™ Safety Helmets
- ▶ For fast replacement, the 5-series faceshields feature an easy to use “snap in” connection with the faceshield holders V5 or U5B and headgear G500
- ▶ The X5-SV faceshields feature an easy and fast connection directly to the 3M™ SecureFit™ Helmets
- ▶ The double curved shape of the 5- and X5-series allows for a close-fitting faceshield design
- ▶ All 5- and X5-series feature a fog resistant coating to improve fogging when compared to an uncoated faceshield. In addition, the X5-series feature a scratch-resistant coating
- ▶ 5A-CP features a curved chin cup to enhance protection against liquid splashes

Typical applications

- ▶ General industry
- ▶ Chemical industry (5A-CP)
- ▶ Construction
- ▶ Metal working
- ▶ Working at height (X5-SV)

Size

Diagram	Model	A	B
	5E-11	169	223
	5F-11	169	223
	5A-CP	205	205
	X5-SV	136	194

Model	Thickness	Weight
5E-11	1.5mm	140g
5F-11	1.5mm	138g
5A-CP	1.0mm	112g
X5-SV	2.5mm	77g

Materials

Component	Material
5E-11, 5F-11 and X5-series	Polycarbonate
5A-CP	Acetate faceshield and polycarbonate chin cup
Frame and linkage	Polypropylene, polyamide

Standards and approvals

The 3M™ 5-series and X5-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™ 5- and X5-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
5E-11	5	1	B	3	N/A
5F-11	2C-1.2	1	B	3	N/A
5A-CP	2C-1.2	1	FT	3	N
X5-SV01	2C-1.2	1	BT	N/A	K, N
X5-SV02	5-3.1	1	BT	N/A	K, N
X5-SV03	2C-1.2	1	BT	N/A	K, N

Filtering performance:

5 = Welding filter, Shade 5 (EN 169)
 2C-1.2 = UV filter, Shade 1.2 (EN 170)
 5-3.1 = Sunglare filter, Shade 3.1 (EN 172)

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:

5E-11, 5F-11 and the X5-series meet the requirement for protection against high speed particles for medium energy impacts, marked B (120m/s). In addition, the X5-series meet this requirement after conditioning at 55°C and -5°C, marked BT. 5A-CP meets the requirement for protection against high speed particles for low energy impacts, marked F (45m/s).

Fields of use:

The 5-series faceshields meet the optional requirements for protection against liquid splash, marked 3.

Optional requirements:

5A-CP and the X5-series meet the requirements for resistance to fogging, marked N. In addition, the X5-series meet the requirements for resistance to surface damage by fine particles, marked K.

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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Use and storage

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 V5 and U5 are connected to the helmets and headgear through a 3M™ P3E earmuff or a P3E adapter if hearing protection is not required. The X5-SV faceshields do not require a faceshield holder and are connected directly to P3E.

Model	X5000 / X5500	U5 + X5000 / X5550	V5 + G3000	V5 + G22	V5 + G3501	G500
5E-11	N/A	✓	✓	✓	✓	✓
5F-11	N/A	✓	✓	✓	✓	✓
5A-CP	N/A	✗	✓	✓	✓	✓
X5-SV01	✓	N/A	✗	✗	✗	✗
X5-SV02	✓	N/A	✗	✗	✗	✗
X5-SV03	✓	N/A	✗	✗	✗	✗

✓ = approved
 ✗ = not approved
 N/A = not applicable