

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-CPF	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, H8	Headgear
3M™ V5, 3M™ U5B or 3M™ FH1	Linkage system

Key features

- ▶ The 5-series and X5-series faceshields are designed to be used with faceshield holders V5, U5B or FH1 attached to 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, U5B or FH1 and headgear G500 and H8
- ▶ 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-CPF features a curved chin cup designed to enhance protection against liquid splashes

Typical applications

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

Size

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

Model	Thickness	Weight
5E-11	2.0mm	140g
5F-11	2.0mm	138g
5A-CPF	1.1mm	112g
X5-SV	2.5mm	77g

Materials

Component	Material
5E-11, 5F-11 and X5-series	Polycarbonate
5A-CPF	Acetate faceshield and polycarbonate chin cup
H8 Headgear	ABS/polyamide
G500 Headgear	Polyamide, HDPE
U5B, V5 and FH1 linkage system	Polyamide

Standards and approvals

These products are type approved by DIN CERTCO Gesellschaft fuer Konformitaetsbewertung GmbH, Alboinstrasse 56, 12103 Berlin, Germany (Notified body number 0196); These products meet the requirements of Regulation 2016/425 on personal protective equipment.

These products are type approved by TUV Rheinland UK, Friars Gate (Third Floor), 1011 Stratford Road, Shirley, Solihull B90 4BN. Approved Body no. 2571; These products meet the requirements of Regulation 2016/425 on personal protective equipment, as amended to apply in GB.

Certificates and Declarations of Conformity are available at www.3M.com/Head/certs

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-CPF	2-1,2	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, good colour recognition, Shade 1,2 (EN 170)
 5-3,1 = Sunglare filter, Shade 3,1 (EN 172)
 2-1,2 = 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:

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-CPF meets the requirement for protection against high speed particles for low energy impacts, marked F (45m/s). In addition, 5A-CPF meets the requirement after conditions at 55°C and -5°C, marked FT.

Fields of use:

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

Important notice

Product selection and use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, limited remedy, and disclaimer: A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms and conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.

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Optional requirements:

5A-CPF 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.

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

- ▶ Always read and follow user instruction
- ▶ 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, U5B and FH1 are connected to the helmets 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	U5B/FH1 + X5000 / X5550	V5/FH1 + G3000	V5 + G22	V5/FH1 + G3501	G500	H8
5E-11	N/A	✓	✓	✓	✓	✓	×
5F-11	N/A	✓	✓	✓	✓	✓	×
5A-CPF	N/A	✓	✓	✓	✓	×	✓
X5-SV01	✓	N/A	×	×	×	×	×
X5-SV02	✓	N/A	×	×	×	×	×
X5-SV03	✓	N/A	×	×	×	×	×

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