

3M™ 5XG-IR5 Protective Faceshield

Description

The 3M™ 5XG-IR5 Protective Faceshield is a helmet mounted, gold-plated, polycarbonate faceshield. It is designed for protection against high heat applications to offer protection against infrared radiation (IR) and molten metal splashing. The 3M™ 5XG-IR5 Protective Faceshield is CE certified and typically used in high heat applications like working near furnaces in the metalworking industry.

Key Features

- 5XG-IR5 is a green tinted, gold plated polycarbonate faceshield, designed to absorb and reflect Infrared radiation (IR).
- In accordance with EN 171, scale number 4-5 of 5XG-IR5 provides a maximum mean transmittance of 0.71% in the infrared spectral range between 780-1400nm, thus providing a 99.29% reduction in this range.
- 5XG-IR5 provides protection against molten metals (marking 9) in accordance with EN 166.
- 5XG-IR5 provides protection against high speed particles with medium energy impact (marking B) in accordance with EN 166.
- 5XG-IR5 features a lens with optical class 1, suitable for prolonged use.
- For fast replacement, the 5XG-IR5 faceshield features an easy to use “snap in” connection with the faceshield holder V5 and FH1.
- 5XG-IR5 is designed and certified to be used with 3M G3501, a 3M industrial safety helmet meeting the Very High Temperature (+ 150 °C) clause 5.2.2 in EN 397; and with faceshield holder V5 and FH1.

Product Range

5XG-IR5	Faceshield
G3501	Industrial Safety Helmet
V5, FH1	Faceshield holder

Typical Applications

Conform to EN 171:2002, a scale 4-5 is typically recommended when exposed to heat sources with temperatures up to 1390 °C. When the level of the radiation is very high, filters with reflective surface treatment are recommended for IR protection because the reflection of the IR radiation results in a smaller rise in filter temperature.

- General Industry
- Metal Manufacturing

Technical Specifications

Table 1: Product Size

Model	Top to Bottom	Side to Side
5XG-IR5	211 mm	230mm

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Figure 1: Faceshield Visor



Table 2: Materials

Component	Material
5XG-IR5	Gold-plated polycarbonate
G3501	Glass fiber reinforced polyamide
V5, FH1	Polyamide

Table 3: Performance

Model	Filtering Performance	Optical class	Impact Performance	Impact Performance
5XG-IR5	4-5 = IR filter, Shade 5 (EN 171)	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.	5XG-IR5 meets the requirement for protection against high speed particles for medium energy impacts, marked B (120m/s).	The 5XG-IR5 meets the optional requirements for protection against molten metal, marked 9.

Use Limitations

- Always follow the user instructions.
- 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.

Use and Storage

- **Shelf Life:** The maximum recommended product life is up to 5 years from the date of manufacture. The product life as defined here is indicative data. The actual product life is subject to environmental variables and should not be interpreted as a warranty.
- **Storage Conditions:** -5 °C to +50 °C, & humidity <85%



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