



# Safety Goggles 2790 & 2790A

## Data Sheet



### Product Description:

The 3M™ Safety Goggles 2790 and 2790A are designed to protect the eyes against a wide range of potential hazards in the workplace. The 2790, featuring polycarbonate lens provides excellent protection against high speed particles at medium energy, molten metal, hot solids and gas. The 2790A features acetate lens that offers good resistance against many organic chemicals.

### Key Features:

- Excellent field of vision for improved safety and wearer confidence.
- Impact resistance against high speed particles at extremes of temperature.
- Sealed design helps provide protection against liquids, dusts, gases & vapours.
- General design and flexible nose bridge for improved comfort.
- Broad, fully adjustable headbands for optimum fit and reliable protection.
- Choice of polycarbonate (2790) or acetate (2790A) lenses to match specific hazard.
  - Acetate lens helps provide good chemical resistance against many solvents and industrial chemicals.
  - Polycarbonate lens version helps protect against molten metal and hot solids.
- Protection against UV radiation.
- Anti-mist coating to help prevent fogging and enhance safety.
- Anti-scratch coating (2790 only) for improved durability and vision.
- Can be worn over most prescription spectacles.
- Design provides good compatibility with 3M 4000 & 7500 Series halfmasks (see Compatibility).

### Approvals

These safety goggles have been shown to meet the basic safety requirements under Article 10 of the European Community Directive 89/686/EEC and are thus CE-marked.

Approval body: Istituto di Ricerche e Collaudi

Notified body: 0068

### Standards

These safety goggles have been tested and approved to the following standards:

EN166:2001 (Personal Eye Protection - Specifications)

EN170 (Ultraviolet filters used in personal eye protection)

They also meet the following requirements:

#### 2790A:

##### Field(s) of use

3 = liquid droplets

4 = large dust particles (>5<sub>m</sub>)

5 = gas & fine dusts (<5<sub>m</sub>)

##### Mechanical strength

FT = low energy impact protection (45 m/s) at extremes of temperature(-5°C & +55°C)

##### Optional requirements

N = resistance to fogging of lenses

#### 2790:

##### As 2790A plus

##### Field of use

9 = resistance to molten metals and penetration of hot solids

##### Mechanical strength

BT = medium energy impact protection (120 m/s) at extremes of temperature(-5°C & +55°C)

##### Optional requirements

K = resistance to surface damage by fine particles

## Marking:

### Example of lens marking

Scale number	3-1.2
Manufacturer's identification	3M
Optical class	1
Symbol for mechanical strength	BT
Symbol for non-adherence of molten metal and resistance to penetration of hot solids	9
Symbol for resistance to surface damage by fine particles	K
Symbol for resistance to fogging of lenses	N

### Example of frame marking

Manufacturer's identification	3M
Product reference	2790
European standard number	EN166
Symbol for liquids	3
Symbol for large dust particles	4
Symbol for gas and fine dust particles	5
Symbol for molten metals and hot solids	9
Symbol for resistance to high speed particles at extremes of temperature	BT

Where lens markings for mechanical strength are different to frame markings for resistance to high speed particles, the lower classification must apply.

### Explanation of symbols

#### Scale number

The lens scale number is a combination of the code number and the shade number, joined together with a dash.

#### Code number

3 - ultraviolet filter: good colour recognition

#### Shade number

Filter shades vary from 1.2 to 5 (higher number = darker tint)

#### Optical Class

1 = highest optical class for continuous wear

## Cleaning

Cleaning is recommended after each use. The product should be cleaned using a cloth moistened with warm soapy water and dried at room temperature. A suitable clean lens cleaning cloth may also be used.

Do not use petrol, chlorinated degreasing fluids (such as trichloroethylene), organic solvents or abrasive cleaning agents to clean any part of the equipment.

## Materials

Lens:	2790 2790A	Polycarbonate Acetate
Frame:	2790, 2790A	PVC
Headband:	2790, 2790A	Polyester, Natural Rubber Latex

## Weights

Product	Weight
2790	112g
2790A	98g

## Applications

These safety goggles can be used in a wide variety of applications including:

- Paint spraying
- Chemical handling
- Manufacturing industry
- Agriculture
- Automotive & body shops
- Laboratories
- Pharmaceutical industry
- Construction
- Metal working

*For help with selecting the most appropriate forms of eye protection, or for more detailed product information, please contact the 3M Health & Safety Helpline on 0870 60 800 60*

### Compatibility

Tests indicate that these combinations are suitable for many wearers. However, compatibility with other personal protective equipment is subject to a number of variables and the user must make an appropriate selection depending on individual requirements.

Refer to your Health & Safety Officer if in any doubt.



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