

**3M** Science.  
Applied to Life.™



# Head Protection

Making sure you are covered under any circumstances.

The 3M™ head protection portfolio offers an unrivalled range of products for companies looking for comfortable and high-quality solutions to meet a variety of industrial applications.

# About the range.

The 3M head protection portfolio offers an unrivalled range of products for companies looking for comfortable and high-quality solutions to meet a variety of industrial applications.



### **Certified combination.**

Where accessories are being used, they should be fully compatible to the safety helmet worn. There are a wide range of accessories which can be fitted to a safety helmet to make it more suitable for variable working conditions.

Examples of accessories are chinstraps, face shields, earmuffs and miners lamp brackets. Care should be taken to ensure that any accessories attached to the safety helmet are compatible.

The range of 3M™ safety helmets are compatible with the same brand hearing, eye and face protection.

## Which type of safety helmet?

The scope of AS/NZS 1801:1997 standard specifies requirements for occupational protective helmets to protect wearers heads from falling objects in building and construction, quarrying, shipbuilding, forestry, and other occupations with similar hazards. These requirements include the construction and materials of the helmet shell and head harness, mechanical strength of the shell and finish of the helmet. All 3M™ safety helmet shells are made from premium impact resistant ABS plastic or polycarbonate.

In compliance with the standards, objectives to specify protective helmets that are to be worn in a variety of occupations, 3M™ safety helmets are classified into three types:

- Type 1 General industrial safety helmets
- Type 2 Helmets intended for high temperature applications
- Type 3 Helmets intended for bushfire fighting

The Australian and New Zealand Standard AS/NZS 1801 classifies Occupational Safety Helmets into three types that must meet the following requirements:

Classification	Shock Absorption	Penetration by Striker	Side Stiffness	Electrical Resistance	Resistance to Ignition	Very Hot Temp. 120°C	Extremely High Temp. 200°C	Thermal Performance of Shell	Retaining Chin Strap Strength
TYPE 1 General industrial	✓	✓	✓	✓	✓	-	-	-	-
TYPE 2 Hot work places	✓	✓	✓	✓	✓	✓	✓	✓	-
TYPE 3 Bushfire fighting	✓	✓	✓	✓	✓	✓	✓	✓	✓

## What is the working life of a safety helmet?

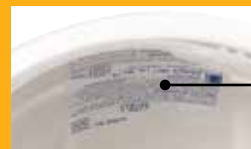
This is one of the most commonly asked questions asked. All information pertaining to selection, care and use is available in AS/NZS 1800:1998.

Markings on safety helmets are a requirement for certification. It assists users in identifying their intended use. The shell is moulded with very important information stamped on the peak and you should familiarise yourself with the significance of this labelling.

Replace your hard hat at regular intervals - Field tests have shown that generally, helmet shells have a life of at least 3 years from the time of issue. Components of harnesses may deteriorate more rapidly in service and harnesses should, therefore, be replaced at intervals not longer than 2 years.

If the sticker has been removed or unused, replace the helmet three years from the manufacture date stamp, which can be found under the brim or peak of the helmet. In the centre of the stamp is the year with a directional arrow pointing to the month of the year in which the helmet was made.

- All helmets have a date of issue sticker.
- The user should record their name and date of issue in the space provided.
- Safety helmets should be inspected regularly to ensure harness is correctly fitted and secure.
- Safety helmet shell should be visually examined for cracks, gouging, fading, damage caused by impact and any degradation.
- If deemed unfit for use remove from service and replace.
- Accessories and attachments must be compatible.
- All 3M brand combinations are certified.



Helmet label allows date of issue and user name to be recorded.



Year and month of manufacture stamp



Helmet material stamp

# Head Protection

## Caring for safety helmets.

All Industrial Safety helmets have been designed to protect the wearer from impact and electrical hazard (up to 650V), therefore, for the helmets to provide ongoing protection the correct care of the helmet is essential.

### The design should not be modified or altered by:

- Drilling holes in the shell
- Painting the shell
- Reducing the clearance between the shell and the harness by alteration or installing objects inside the helmet
- Not using the correct harness supplied by the manufacturer
- Fitting of non-certified accessories to the helmet.

### Avoid:

- Using the helmet for other than it was designed for - seats, wheel chocks etc.
- Excessive use of chemicals such as repellents, strong cleaning agents etc.
- Wearer alteration e.g. engraving of names, painting, fitting penholders/cigarette lighters etc.
- The build up of dirt, grease etc - ensure cleaning at least weekly.
- Poor storage and unnecessary exposure to the weather and solar radiation e.g. leaving outside when not in use or storage in the back of an open vehicle.
- Holding the cap by its brim and flexing it. This will weaken the brim and cause fatigue in the safety cap.

All these have the potential to damage or weaken the helmet and cause unseen deterioration of the shell and its harness.

## Storage.

Poor storage can impact on the working life of the 3M™ safety helmet. Exposure to heat, sunlight and airborne contamination can cause premature aging. It is important to ensure safety helmets are stored in an area, locker or bag free of possible damage.

## Cleaning.

- ✓ Wash with warm soapy water
- ✓ No harsh solvents or cleaning agents
- ✓ Use dishwashing brush for stubborn marks
- ✗ Avoid petrol, paint, adhesives and aerosol sprays
- ✗ Wash harness separately. No alterations
- ✗ Visual inspection weekly. No rough treatment
- ✗ Do not place objects between shell and harness

## Mandatory head protection.

Many worksites around Australia have a requirement for mandatory head protection to be worn. Industries such as mining, construction, forestry and heavy engineering can expose employees to dangerous hazards and the risk of being severely injured by falling objects, knocking your head or walking into a stationary object. The wearing of a safety helmet in these working environments is essential to worker safety.



## Additional considerations.

- The selection process should consider the work place operational, occupational health and safety requirements to ensure the correct helmet type and appropriate accessories are selected.
- Ensure the wearer understands the purpose/reason for the need to wear a safety helmet.
- The wearer is instructed on the fitting and care of the helmet and or accessories.
- Periodic inspection and maintenance is carried out to ensure the helmets are in good working condition and defective helmets and components or helmets that have exceeded a reasonable working life are replaced.

## Damage.

Safety helmets can endure invisible damage due to excessive exposure to sunlight, heat, solvent based paints, markers or cleaning products, the use of adhesives needs to be avoided and advice sought prior to using self adhesive labels and tapes. 3M offers reflective tape and custom printing of helmets at the time of manufacturing.

## Bump caps are not an alternative to mandatory safety helmets.

- Bump caps are effective against knocks, bumps and scalp lacerations.
- Bump Caps are ideally suited for some trades activities, domestic security, police, aviation, ground staff, transport services and auto-repair etc.

## Comfort and correct fit.

The 3M™ safety helmet range places wearer comfort at the same level of importance as features and performance.

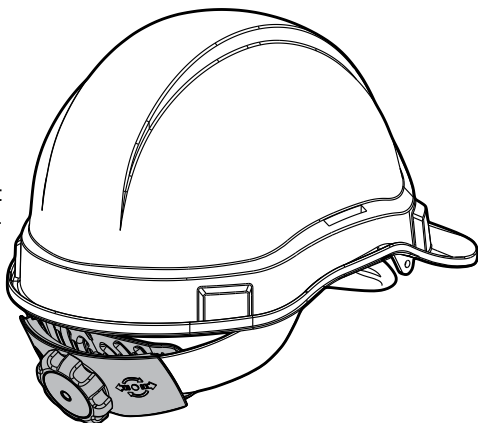
Learning how to adjust straps and other parts on your safety helmet for a comfortable and effective fit is essential for adequate head protection and product performance.

Multiple adjustments can be made on 3M™ safety helmets to personalise fit.

In fact, there are over twenty-four variations, including adjustments to allow for forehead size either moving the headband forward, back, up and down (four-way adjustment) on the four lug suspension points.

## Ratchet.

Ratchet headband provides easier and quicker adjustment. The ratchet adjustment allows custom, on-head sizing.



## Features.

- Fully compatible with the 3M current range of headgear and harnesses.
- No screw is needed during the assembly process, the knob tightness will be consistent.
- Easily assembled by end-user without any tool
- Increase user comfort level in the work with additional pad.
- Customize printing can be applied on the ratchet knob.
- Ratchet Adjustment indicator.

## Correct fit.

To provide adequate protection to the wearer the helmet should be a comfortable, secure fit.

- The headband size should be adjusted to a firm, but not tight fit on the wearers head.
- For wearers with small head sizes the head harness may need adjustment to provide a better balanced fit.
- The peak (cap style) for general wear should be worn at the front and the cap aligned horizontally.
- The accessories selected should attach securely to the helmet and not adversely affect the balance, comfort or the performance of the helmet. A helmet worn in conjunction with a visor holder and visor may require a ratchet headband to be fitted to the helmet to maximise fit security and balance.

## Other workplace hazards may need to be considered during the safety helmet selection process.

- High Noise (Hearing Protection) - the suitability of the industrial safety helmet to be used in conjunction with earmuffs.
- High wind areas or when used with machinery (eg bulldozer) - the use of a ratchet adjustment headband and/or a chin strap will enhance stability.
- Eye & face hazards from flying objects, heat, splashing molten metals & chemical splash etc. - use of suitable protective face and eye shields in conjunction with the helmet (Type 1, 2 or 3) and/or the use of suitable ear and neck protectors.
- Low light (tunnels, mining etc) - the use of suitable lamp attachments, cable clips, reflective tape and other visibility aides.
- Outdoor applications - the use of wide brim attachments, ear and neck protectors, top ventilation in the cap shell and fitment of suitable sweatbands as well as the use of light colours or high visibility colours.

# Customisation.

### Logo printing & branding.

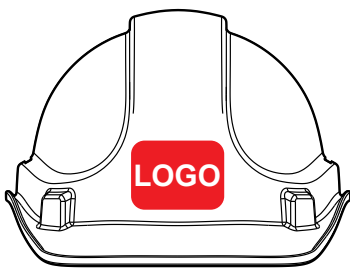
Corporate branding and reflective tape options available across the range help to create and maintain company image and visibility on site. 3M safety helmets have been designed to allow customisation with company logos, images and allows for the helmets to be branded with a logo on orders as low as 20 units. There are various logo printing positions and colours available.

3M safety helmets fitted with reflective tape have the advantage of improved visibility, particularly in low light areas and at night. The tapes have been extensively tested to ensure that the adhesive is fully compatible with ABS (Acrylonitrile Butadiene Styrene) and polycarbonate materials. The different shapes and patterns have been designed to fit the helmets and enhance the day and night-time visibility of the wearer. Most patterns have been designed to also fit around safety helmet accessories such as hearing protection, lamp brackets and company logo.

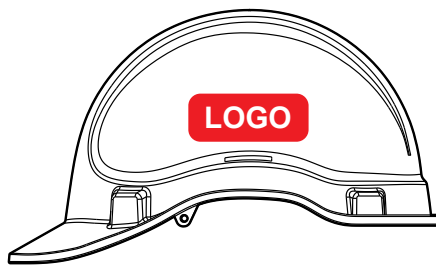
### LOGO PRINTING & BRANDING

SHOWN TA500 SERIES - CAP PRINTING IS SIMILAR ACROSS ALL HELMETS

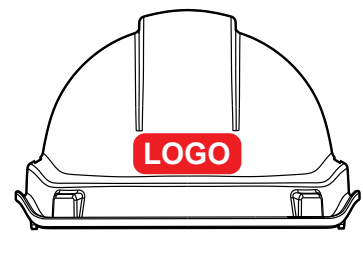
FRONT



SIDE



REAR



THE LOGO DIMENSION DEPENDS ON:

1. SHAPE OF LOGO/ARTWORK

2. STYLE OF CAP

3. PRINTING POSITION



### Reflective tapes.

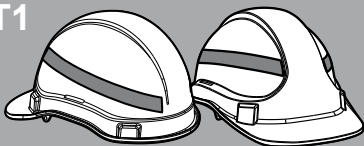
Improved visibility, 3M™ safety helmets fitted with reflective tape have the advantage of improved visibility, making it easier to see where people are working, particularly in low light areas at night. The tapes used by 3M™ have been extensively tested to ensure that the adhesive is fully compatible with the ABS and Polycarbonate 3M™ safety helmets.

The different shapes and patterns have been designed to fit the helmets and enhance the day time and night time visibility of the user. Most patterns have been designed to also fit around safety helmet accessories such as lamp brackets and company logos. Reflective tapes are certified to AS/NZS 1906.1

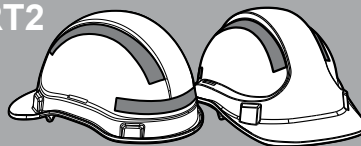
### REFLECTIVE TAPES

SHOWN TA500 SERIES - TAPE FITTING IS SIMILAR ACROSS ALL HELMETS

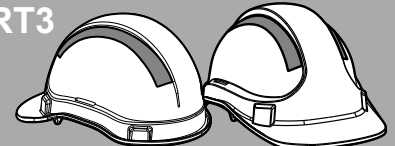
RT1



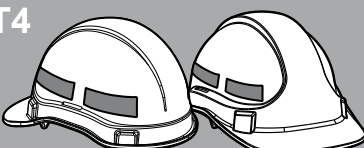
RT2



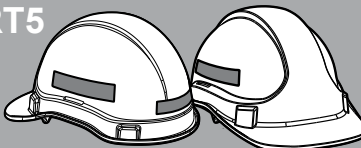
RT3



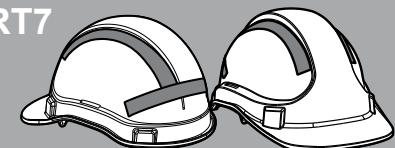
RT4



RT5



RT7



THE DIFFERENT SHAPES AND PATTERNS HAVE BEEN DESIGNED TO FIT THE HELMETS AND ENHANCE THE DAY AND NIGHT TIME VISIBILITY OF THE USER. MOST PATTERNS HAVE BEEN DESIGNED TO ALSO FIT AROUND SAFETY HELMET ACCESSORIES SUCH AS LAMP BRACKETS AND COMPANY LOGOS. REFLECTIVE TAPES ARE CERTIFIED TO AS/NZS 1906.1

# 3M™ TA570 Safety Helmet ABS Vented

The Australian made TA570 is a vented ABS Type 1 safety helmet ideal for general industrial, construction and mining applications. The unique crown cooling vented safety helmets ensure cooler and more comfortable protection in hot humid conditions. The safety helmet design allows multiple branding and reflective tape options.



## Features and Benefits:

- ABS Type 1 vented safety helmet
- Australian made
- Unique crown cooling vents for outdoor/indoor use
- 6 point terylene harness with adjustable headband
- Replaceable Terry Towel sweatband (TA094)
- 25mm moulded slots accept all safety helmet accessories
- Polycarbonate & metal lamp bracket options available
- Ideal for general industry, construction, mining and forestry
- Certified to AS/NZS 1801:1997



3M Order Code	Model #	Description
AT010705674	TA570:BL	Vented Blue
AT010705708	TA570:FLOR	Vented Fluro Orange
AT010705724	TA570:FLYE	Vented Fluro Yellow
AT010705732	TA570:GN	Vented Green
AT010705823	TA570:OR	Vented Orange
AT010705831	TA570:RD	Vented Red
AT010705864	TA570:WH	Vented White
AT010705872	TA570:YE	Vented Yellow
AT010705898	TA570M:BL	With Metal Bracket- Blue
AT010672577	TA570M:OR	With Metal Bracket- Orange
AT010705906	TA570M:WH	With Metal Bracket- White
AT010705914	TA570M:YE	With Metal Bracket- Yellow
AT010706185	TA570M:GN	With Metal Bracket- Green
AT010781303	TA570L:RD	With Lamp Bracket- Red
AT010705880	TA570L:WH	With Lamp Bracket- White
AT010674698	TA570L:YE	With Lamp Bracket- Yellow

3M Order Code	Model #	Description
AT010706169	TA570RH:OR	With Ratchet Headgear-Orange
AT010692880	TA570RH:RD	With Ratchet Headgear-Red
AT010706201	TA570RH:WH	With Ratchet Headgear-White
AT010706276	TA570RH:YE	With Ratchet Headgear- Yellow
AT010672635	TA570RH:BL	With Ratchet Headgear- Blue
AT010706136	TA570RH:FLYE	With Ratchet Headgear- Fluro Yellow
AT010668021	TA570RH:FLOR	With Ratchet Headgear- Fluro Orange
AT010706284	TA570RH:GN	With Ratchet Headgear- Green
AT010706151	TA570LRH:WH	With Lamp Bracket, Ratchet Headgear- White
AT010706342	TA570RHRT2:WH	With Ratchet Headgear, Reflective Tape 2- White
AT019447633	TA570RHRT2:BL	With Ratchet Headgear, Reflective Tape 2- Blue
AT010677170	TA570RHRT2:YE	With Ratchet Headgear, Reflective Tape 2- Yellow

# Head Protection

## 3M™ TA550 Safety Helmet

- ABS Type 1 safety helmet
- Australian made
- 6 point polyethylene harness
- Replaceable Terry Towel Sweatband (TA094)
- 25mm moulded slots accept all safety helmet accessories
- Ideal visitors safety helmet
- Certified to AS/NZS 1801:1997



3M Order Code	Model #	Description
AT010689894	TA550:BL	Blue
AT010704396	TA550:FLOR	Fluro Orange
AT010704404	TA550:FLYE	Fluro Yellow
AT010674045	TA550:GN	Green
AT010677196	TA550:OR	Orange
AT010704438	TA550:RD	Red
AT010704586	TA550:WH	White
AT010704594	TA550:YE	Yellow

## 3M™ TA580 Safety Helmet Polycarbonate Type 2 (Heat)

- Australian made
- Type 2 polycarbonate shell for higher temperature work applications
- Comfortable 6 point terylene head harness
- Terry towel sweatband absorber (replaceable)
- 25mm moulded slots accept all safety helmet accessories (cap attach earmuffs and visors).
- PPE combinations have been tested as an "approved" combination under AS/NZS 1801:1997, AS/NZS 1337:1992, AS/NZS 1270:2002.



3M Order Code	Model #	Description
AT010706300	TA580:WH	Unvented White
AT010706318	TA580:YE	Unvented Yellow
AT010669326	TA580:RD	Unvented Red
AT010781295	TA580:OR	Unvented Orange
AT010706599	TA580:GN	Unvented Green
AT019447740	TA580:BL	Unvented Blue
AT010706573	TA580:FLOR	Unvented Fluro Orange
AT010706581	TA580:FLYE	Unvented Fluro Yellow
AT010706631	TA580M:YE	Unvented Metal Lamp Bracket Yellow
AT019446957	TA580L:OR	Unvented Polycarbonate Lamp Bracket Orange
AT010715343	TA580RH:YE	Unvented Ratchet Harness Yellow

## 3M™ TA590 Safety Helmet Polycarbonate Type 2 (Heat)

- Australian made
- Type 2 Polycarbonate shell suitable for higher temperature applications
- Top venting ensures cooler and more comfortable protection
- Comfortable 6 point terylene head harness
- Terry towel sweatband absorber (replaceable)
- 25mm moulded slots accept all safety helmet accessories (cap attach earmuffs and visors).
- PPE combinations have been tested as an "approved" combination under AS/NZS 1801:1997, AS/NZS 1337:1992, AS/NZS 1270:2002.



3M Order Code	Model #	Description
AT010706607	TA590:WH	Vented White
AT010706706	TA590:YE	Vented Yellow
AT010706698	TA590:RD	Vented Red
AT010686551	TA590:BL	Vented Blue
AT010669771	TA590:FLYE	Vented Fluro Yellow
AT019446999	TA590:FLOR	Vented Fluro Orange
AT019495186	TA590:OR	Vented Orange
AT019494882	TA590:GN	Vented Green

## 3M™ TA560 Safety Helmet Abs

- ABS Type 1 safety helmet
- Australian made
- 6 point terylene harness with adjustable headband
- Replaceable Terry Towel Sweatband (TA094)
- 25mm moulded slots accept all safety helmet accessories
- Polycarbonate & metal lamp bracket options available
- Ideal for general industry, construction and mining
- Certified to AS/NZS 1801:1997



3M Order Code	Model #	Description
AT010704909	TA560:BL	Blue
AT010705070	TA560:FLOR	Fluro Orange
AT010705096	TA560:FLYE	Fluro Yellow
AT010705104	TA560:GN	Green
AT010705138	TA560:OR	Orange
AT010705153	TA560:RD	Red
AT010705187	TA560:WH	White
AT010705195	TA560:YE	Yellow
AT010705690	TA560RH:OR	Ratchet Headgear Orange
AT010677360	TA560RH:RD	Ratchet Headgear Red
AT010687005	TA560RH:BL	Ratchet Headgear Blue
AT019447393	TA560RH:FLYE	Ratchet Headgear Fluro Yellow
AT010705476	TA560RH:WH	Ratchet Headgear White
AT010682121	TA560RH:YE	Ratchet Headgear Yellow
AT010689043	TA560M:BL	Metal Lamp Bracket Blue
AT010705419	TA560M:FLOR	Metal Lamp Bracket Fluro Orange
AT010687765	TA560M:FLYE	Metal Lamp Bracket Fluro Yellow
AT010668443	TA560M:GN	Metal Lamp Bracket Green
AT010705617	TA560M:OR	Metal Lamp Bracket Orange
AT010705435	TA560M:RD	Metal Lamp Bracket Red
AT010705443	TA560M:WH	Metal Lamp Bracket White
AT010705450	TA560M:YE	Metal Lamp Bracket Yellow
AT010677709	TA560L:BL	Polycarbonate Lamp Bracket Blue
AT010680281	TA560L:GN	Polycarbonate Lamp Bracket Green
AT010705559	TA560L:OR	Polycarbonate Lamp Bracket Orange
AT010685983	TA560L:RD	Polycarbonate Lamp Bracket Red
AT010705401	TA560L:WH	Polycarbonate Lamp Bracket White
AT010671348	TA560L:YE	Polycarbonate Lamp Bracket Yellow
AT010705484	TA560RT1:WH	Style 1 Reflective Tape White
AT010705534	TA560RT2:FLOR	Style 2 Reflective Tape Fluro Orange
AT010705567	TA560RT2:FLYE	Style 2 Reflective Tape Fluro Yellow
AT010705609	TA560RT2:WH	Style 2 Reflective Tape White
AT010705625	TA560RT2:YE	Style 2 Reflective Tape Yellow
AT019447625	TA560RT2:GN	Style 2 Reflective Tape Green
AT010667288	TA560RT2:BL	Style 2 Reflective Tape Blue
AT010688334	TA560MRH:WH	Metal Lamp Bracket, Ratchet Headgear- White
AT019495004	TA560MRH:YE	Metal Lamp Bracket, Ratchet Headgear- Yellow



## 3M™ HH40 Type 1 ABS

- HH40 Non-vented, Type 1 ABS material, durable and lightweight
- Full brim for extra sun or splash protection
- Six point 25mm webbing harness with injection moulded adjustable headband
- Customised options available: logos, reflective tape
- Accessories available: sweatband, chinstrap, headgear
- Optional model: helmet with miners lamp brackets (metal or polycarbonate)
- Available on request (minimum order quantities may apply)
- Fluoro yellow and orange colours available on request (minimum order quantities apply)
- Suitable for mining, construction, transport, forestry and heavy engineering industries



3M Order Code	Model #	Description
AT010703455	HH40:WH	White
AT010703463	HH40:YE	Yellow
AT010703448	HH40:RD	Red
AT010703430	HH40:OR	Orange
AT010703414	HH40:BL	Blue
AT010703422	HH40:GN	Green
AT010703505	HH40L:WH	With Polycarb lamp bracket - White
AT010676990	HH40L:YE	With Polycarb lamp bracket - Yellow
AT010677626	HH40L:BL	With Polycarb lamp bracket Blue
AT010680554	HH40L:RD	With Polycarb lamp bracket Red
AT010703554	HH40M:OR	With metal lamp bracket - Orange
AT010703562	HH40M:WH	With metal lamp bracket - White
AT010694696	HH40M:BL	With Metal lamp bracket Blue
AT010664491	HH40M:GN	With Metal lamp bracket Green
AT019446759	HH40MRT3:BL	With Metal Lamp bracket, Reflective Tape 3- Blue
AT010703588	HH40RT2:WH	With Reflective Tape 2- White
AT019447617	HH40RT2:GN	With Reflective Tape 2- Green
AT019447799	HH40RT2:BL	With Reflective Tape 2- Blue

## 3M™ HF46: Type 3 Bush Fireman's Helmet

- Type 3: lightweight polycarbonate heat resistant wide brim helmet
- Wide brim for added ember and splash protection
- Flame resistant neck flap offers protection from embers and radiant heat
- Integrated hanging hook for storage
- Fitted with neck flap, elastic chinstrap and reflective tape as standard
- Front and rear harness sweatbands as standard
- Available with or without visor
- Available in elastic or 4-point chinstrap
- Customised logo options available
- Accessories available: sweatband, chinstrap, headgear
- Ideal for firefighting, emergency response and high temperature tasks
- Approved to AS/NZS 1801:1997



3M Order Code	Model #	Description
AT010624131	HF46B:WH	Bushfire helmet w/2 point elastic chinstrap White -
AT010686486	HF46BV:YE	Helmet complete w/elastic chin strap & visor Yellow-
AT010703356	HF46BV:RD	Bushfire helmet w/chin strap & visor Red -
AT010703349	HF46BV:OR	Bushfire helmet Orange 0238 7063 H

## 3M™ HH44 Type 2 Non-Vented Full Brim Safety Helmet

- HH44 Non-vented, Type 2 Polycarbonate for high temperature applications
- Full brim for extra sun or splash protection
- Six point 25mm webbing harness with injection moulded adjustable headband
- Customised options available: logos, reflective tape
- Accessories available: sweatband, chinstrap, headgear
- Optional model: helmet with miners lamp brackets (metal or polycarbonate)
- Available on request (minimum order quantities may apply)
- Fluoro yellow and orange colours available on request (minimum order quantities apply)
- Suitable for mining, construction, transport, forestry and heavy engineering industries



3M Order Code	Model #	Description
AT010703604	HH44:WH	3M™ Polycarbonate 1 (Type 2) - White
AT010687476	HH44:GN	3M™ Polycarbonate 1 (Type 2) - Green
AT010694308	HH44:RD	3M™ Polycarbonate 1 (Type 2) - Red
AT010703596	HH44:OR	3M™ Polycarbonate 1 (Type 2) - Orange
AT019447104	HH44:BL	3M™ Polycarbonate 1 (Type 2) - White
AT010703620	HH44SLV	3M™ Tuffmaster 1 ABS (Type 1) - Silver
AT019446973	HH44L:OR	With Polycarb lamp bracket Orange
AT019495137	HH44:YE	3M™ Polycarbonate 1 (Type 2) - Yellow

## Accessories for HF44 and HF46



XVPS46

HXNFPC4



3M Order Code	Model #	Description
AT010703844	HXVPS46	HF46 Short visor 100mm x 400mm Clear
AT010682220	HXVPL46	HF46 Long visor 165mm x 400mm Clear
AT010703786	HXNFPC4	HF46 Flame resistant neckflap Yellow
AT010683681	HXVPC46	Polycarbonate visor suits HF46 helmet Clear
AT010703646	HXCS40	Chinstrap
AT010703778	HXNFPC	Neckflap
AT010703695	HXHG40RH	Harness
AT010703687	HXHG40	Pinlock Headgear HH40/HH44
AT010703653	HXCS4P	Chinstrap Adjustable 4 Point
AT010703828	HXVK	Fitting Kit HF44 Bushfire Hat

# Head Protection

## 3M™ HF44: Type 3 Bush Fireman's Helmet

- Type 3 lightweight polycarbonate heat resistant wide brim helmet
- Wide brim for added ember and splash protection
- Flame resistant neck flap offers protection from embers and radiant heat
- Fitted with neck flap, elastic chin strap and reflective tape as standard
- Available with or without visor
- Customised logo options available
- Suitable for firefighting, emergency response and high temperature tasks
- Approved to AS/NZS 1801:1997



3M Order Code	Model #	Description
AT010703299	HF44:WH	White
AT010694779	HF44:OR	Orange
AT010679549	HF44:YE	Yellow
AT010703307	HF44P:WH	With brim holes (Type 3) - White
AT010703315	HF44P:YE	With brim holes (Type 3) - Yellow
AT010669508	HF44V:WH	With visor (Type 3) - White

## 3M™ HC23 First Base 3 Bumpcap

- Available in assorted colours and peak lengths
- Fashionable and lightweight providing high wearer acceptance
- Unique perforated vented shell with comfort pad
- Contoured over the ears improves compatibility with other PPE
- Machine washable fabric caps
- CE approved to EN812:A1
- Protects the head from knocks, bumps and scalp lacerations
- Must not be used for mandatory safety helmet applications
- Hi-vis options available
- 52 – 65cm head size



HC23HYRPCLA



HC23NBRPCLA



HC23BLKRPCLA



HC23HORPCLA



HC23BGELTRP



HC23NBMPCLA



HC23HO/RP

3M Order Code	Model #	Description
AT010654716	HC23BGELTRP	Base Bump Cap 3 Blue Grey Reduced Peak
AT010654724	HC23BLKRPCLA	Base Bump Cap 3 Black Reduced Peak Clssc
AT010654732	HC23HORPCLA	Base Bump Cap 3 Hi Vis Orange Reduced Peak
AT010654740	HC23HYRPCLA	Base Bump Cap 3 Hi Vis Yellow Reduced Peak
AT010654757	HC23NBMPCLA	Base Bump Cap 3 Navy Blue Micro Peak
AT010654765	HC23NBRPCLA	Base Bump Cap 3 Navy Blue Reduced Peak
UU010302980	HC23HO/RP	Base Bump Cap 3 Winter High Visibility Orange

## 3M™ Safety Branded Safety Helmets

- Australian made Type 1 ABS safety helmet, for general industrial use
- Ideal for evacuation and work sites where specific employee responsibilities and clear identification is required
- Certified to AS/NZS 1801:1997



3M Order Code	Model #	Description
AT010705260	TA560F04:GN	First Aid Green
AT010705203	TA560C92:WH	Chief Fire Warden White
AT010705468	TA560R27:RD	Fire Warden Red
AT010705641	TA560W30:YE	Area Warden Yellow
AT010705633	TA560V01:WH	Visitor White

## 3M™ Wide Brim and Neckflap

- Accessory to any safety helmet
- Provides sun protection for the face and neck
- Ideal for outdoor workers specifically construction, forestry, electrical maintenance, mining, oil and gas exploration and general industry



3M Order Code	Model #	Description
AT010659426	TA173:BK	Black
AT010659434	TA173:GN	Green
AT010659459	TA173:OR	Orange
AT010659467	TA173:RD	Red
AT010659475	TA173:WH	White
AT010659483	TA173:YE	Yellow
AT010659442	TA173:NA	Navy

# Head Protection

## 3M™ Balaclava

- Hook and loop attachment lugs – easy fitting to helmet harness
- Integrated neckflap design for added warmth
- Balaclava rotates with helmet for improved safety and helmet stability
- Suitable for forestry, construction, plant operators, cold storage, freezer or cold weather workers



3M Order Code	Model #	Description
AT019447807	TA179BK	Balaclava For Use Under Helmet – Black

## 3M™ Sweatbands



TA095



TA094

3M Order Code	Model #	Description
AT010700691	TA094	Sweatband Terry Towelling (7)
AT010701343	TA095	Sweatband Lambswool For Helmets

## 3M™ Safety Helmet Accessories



TA598



TA597



HXSC71



Google Clip



3M Order Code	Model #	Description
AT010703992	TA175	Chinstrap For TA500 TA400 Series Helmets
AT010703653	HXCS4P	Chinstrap Adjustable 4 Point
AT010704065	TA180	Reflective Tape Kit For Helmets
AT010704362	TA497	Replacement 6 Point Harness For TA400
AT010704370	TA498	Ratchet Headgear For TA400 Series
AT010706714	TA597	Replacement 6 Point Harness For TA500 Series
AT010706730	TA598	Ratchet Headgear For TA500 Series Helmet
AT010700196	HXSC71	Insert Slot Cover For TA500 Helmets
UU01141205	Google Clip	Goggle Clip All Caps



# Face Protection

Faceshields are a versatile eye/face protector and are used in many industries to protect users against flying particles, liquids, chemical and molten splashes, radiant heat and glare. The 3M™ visors are manufactured from Polycarbonate (medium and high impact), Thermoguard+ (high impact and heat, chemical, molten metal and hot solids protection) and mesh (nylon and metal - low to medium impact depending on mesh visor selected). Visors can be fitted to 3M™ browguards or visor holders for use with the 3M™ brand safety helmets. All 3M™ visors are Australian made. 3M™ recommends the use of safety eyewear when wearing a visor system.

# Face Protection.

At 3M™, we help employers deal with safety barriers between workers and the jobs that need to get done. That's the motivation behind our high-performance line of combination systems. These integrated systems provide multifaceted protection in one convenient package. Each component is designed for durability and ease of use – and together, they provide advanced protection from a leader in safety. Consider this system for workers who clear vegetation with power tools.

The 3M™ brand is synonymous with innovation and technical precision. We're at the leading edge of head and face protection because we have our ear to the ground. We understand the nuanced needs of different market segments, and we're constantly elevating the standards of personal safety for a wide range of industries.

We design and produce hard hats, faceshields, combination systems and accessories to meet a diverse spectrum of needs. We're committed to producing consistently reliable, user-friendly products



## Browguards & Visors Complete

- Low to high impact protection in accordance with AS/NZS1337.1
- Ratchet headgear adjustment for comfort
- Fits all range of visors
- Replaceable Terry Towel Sweatband (TA094)
- Wipe down finish
- Suitable for general industry against medium to high impact, heat and chemical hazards

### VC107

- Low to high impact protection
- Ratchet adjustable headband
- Wide flare 1mm polycarbonate visor with chinguard for extra neck and face protection
- Visor dimensions: 400(w) x 175(h) mm
- Friction pivoting system for lifting and lowering
- Protect wearer against flying particles, liquid, chemical, molten splashes, radiated heat and glare
- Suitable for work such as grinding and disc cutting, lead jointing, metal cleaning and plating, chemical processing, liquid splash and gauging



3M Order Code	Model #	Description
AT010707357	VC105	Browguard and Visor Complete Kit
AT010707340	VC106	Faceshield Complete VV997 AND VV925
AT010707373	VC107	Browguard Visor and Blue Chinguard Kit
AT010707670	VV848	Replacement Clear Polycarb Visor VC105
AT010707530	VV518	Repl Clr Polycarb Visor Blue Chinguard
AT010707548	VV518:5	Repl Shd 5 Polycarb Visor Blue Chinguard
AT010700691	TA094	Sweatband Terry Towelling (7)

## 3M™ Visor Holders for Safety Helmets



3M Order Code	Model #	Description
AT010707381	VH500	Nylon Visor Holder for TA500 Helmet Visor
AT010707399	VH500P	Nylon Peaked Visor Holder for TA500
AT010659731	VV765	Aluminium Visor Holder for TA500 Helmets
AT010659749	VV766	Aluminium Visor Holder For TA400 HH40 Helmets
AT010700006	2010892	Cap attachment arms for TA500 series safety helmets

\*VV765 and VV766 is not made in Australia.

## 3M™ Budget Faceshield Complete

- Medium impact protection
- Economical Faceshield
- Polycarbonate visor
- Resistant to medium impact particles and water-based liquids e.g. biological, acids, weak solvents
- Suitable for general use or for school laboratories or medical purposes



3M Order Code	Model #	Description
AT010707449	VV230	Budget Faceshield Complete With Visor

## 3M™ Browguard

High impact glossy nylon shell. Lightweight and comfortable. Ratchet adjustable headgear. Replaceable Terry Towel Sweatband (TA094). Suitable for all general industrial and high heat applications. Visors purchased separately



3M Order Code	Model #	Description
AT010707969	VV997	Browguard Only With Ratchet Headgear
AT010700691	TA094	Sweatband Terry Towelling

\*TA094 is not made in Australia.

## 3M™ Clear Unbound Economy Visors

- 1mm thickness provides high impact protection
- Polycarbonate visors have a safe operating temperature of 105°C
- Suitable for resistance to impact and waterbased liquids
- 3M Polycarbonate Visors fit the 3M browguard (VV997) or the VH500 (non-peaked), VH500P (peaked) or VV765 and VV766 visor holders
- It is recommended that with all faceshields secondary eye protection should be worn



3M Order Code	Model #	Description
AT010707639	VV730	1mm Polycarb Clr 200mm x 385mm Visor

## 3M™ Clear 1mm Polycarbonate Visors

- 1mm thickness provides high impact protection
- Polycarbonate visors have a safe operating temperature of 105°C
- Suitable for resistance to impact and waterbased liquids



3M Order Code	Model #	Description
AT010707670	VV848	Replacement Clear Polycarb Visor VC105
AT010707696	VV854	1mm Polycarbonate Clear 200mm H x 400mm W Visor (V) - Flared
AT010707803	VV924	1mm Polycarb 250mm x 300mm Visor
AT010707811	VV925	1mm Polycarb 250mm x 400mm Visor Flared

# Face Protection

## 3M™ Clear Thermotuff+ Visors

- Thermotuff+ visors have a safe operating temperature of 125°C
- Thermotuff+ visors provide high impact, radiant heat and chemical splash protection
- Thermotuff+ visors fit the 3M browguard (VV997), VH500 (non peaked), VH500P (peaked), aluminium visor holders VV765 (peaked safety helmet) and VV766 (wide brim safety helmet).
- It is recommended that with all faceshields secondary eye protection should be worn



VV875 / VV881

VV876 / VV882



3M Order Code	Model #	Description
AT010707704	VV875	1mm Thermotuff 200mm x 300mm Visor
AT010707712	VV876	1mm Thermotuff 200mm x 400mm Visor Flared
AT010707720	VV881	1mm Thermotuff 250mm x 300mm Visor
AT010707746	VV882	1mm Thermotuff 250mm x 400mm Visor Flared
AT010707613	VV740	Visor Thermotuff Plus CI C ATT 385 X 200

## 3M™ Chinguard Visors

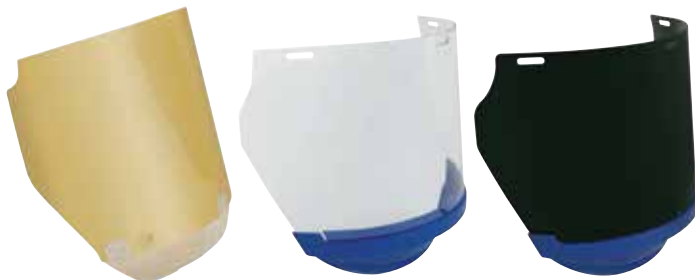
- High impact resistant
- Provide additional chin and upper chest protection
- Available in different materials to suit various applications



VV501 / VV511 / VV516 / VV517

VV801

VV515



VV502

VV518

VV518:5

3M Order Code	Model #	Description
AT010707456	VV501	1mm Polycarb Clear 230mm x 400mm Chinguard
AT010707480	VV502	1mm Polycarb Gold 230mm x 400mm Chinguard
AT010707506	VV511	1mm Thermotuff Clear 230mm x 400mm Chinguard
AT010707514	VV515	1mm Thermotuff Shade 5 230mm x 400mm Chinguard
AT010707522	VV516	1mm Polycarb Clear 175mm x 400mm Chinguard
AT010669060	VV517	1mm Thermotuff Clear 175mm x 400mm Chinguard
AT010707530	VV518	Repl Clr Polycarb Visor Blue Chinguard
AT010707548	VV518:5	Repl Shade 5 Polycarb Visor Blue Chinguard
AT010707589	VV520	1.5mm Polycarb Clear 175mm x 400mm Chinguard
AT010707597	VV521	1.5mm Polycarb Clear 225mm x 400mm Chinguard
AT010707647	VV801	1mm Thermotuff Shade 2 230mm x 400mm Chinguard
AT010707555	VV530	Visor 7in Chinguard Thermotuff Plus Cl

## 3M™ Green Shade 5 Visors

- Shade 5 visors gives protection against liquid splash, high glare and ultra violet radiation.
- Approved for use for gas and braze welding operations
- Polycarbonate visors have a safe operating temperature of 105°C (material will start to distort and warp when it reaches its maximum temp).
- Thermotuff+ visors have a safe operating temperature of 120°C (material will start to distort and warp when it reaches its maximum temp).
- 3M Thermotuff+ visors fit the 3M browguard (VV997), VH500 (non peaked), VH500P (peaked), aluminium visor holders VV765 (peaked safety helmet) and VV766 (wide brim safety helmet).
- It is recommended that with all faceshields secondary eye protection should be worn



VV902 / VV926 / VV927:5 / VV904

VV901



3M Order Code	Model #	Description
AT010707753	VV901	1mm Thermotuff Shd 5 200mm x 300mm Visor
AT010707761	VV902	1mm Thermotuff Shd 5 200mm x 400mm Visor Flared
AT010707795	VV904	1mm Thermotuff Shd 5 250mm x 400mm Visor Flared
AT010707837	VV926	1mm Polycarb Shd 5 250mm x 400mm Visor Flared
AT010707845	VV927:5	1mm Polycarb Sh5 200mm x 400mm Visor Flared

## 3M™ Green Shade 2 Visors

- Suitable for outdoor glare
- UV and anti-scratch resistant
- Provides high impact protection



3M Order Code	Model #	Description
AT010707654	VV822	1mm Thermotuff Shd 2 200mm x 400mm Visor
AT010707662	VV824	1mm Thermotuff Shd 2 250mm x 400mm Visor

## 3M™ V5 Face shield carrier

The V5 Face shield carrier feature makes it quick and easy to combine the face shield to the face shield holder.

- Compatible only with 5F-11C & 5B mesh visor
- Requires either a P3E 30mm or a P3G 24mm earmuff slotted adapter to attach to a hard hat



3M Order Code	Model #	Description
XA007704084		V5 Linkage System For Helmet 10/Case



## Headgear Combo Forestry

The 3M™ Headgear G500 provides a versatile and comfortable solution for wearers who require both face and hearing protection.



3M Order Code	Model #	Description
XA007703862	G500V5CH510-OR	Headgear Combo Forestry 3M strd

## Headgear Combo Industrial

The 3M™ Headgear G500 provides a versatile and comfortable solution for wearers who require both face and hearing protection.

With special design features making it easy to combine the headgear with other 3M safety products such as face shields, passive earmuffs or communication headsets and eyewear.



3M Order Code	Model #	Description
UU001471117	G500V511H510-GU	Headgear Combo Industrial 3M strd

## Chainsaw Kit

The Chainsaw Kit helmet, earmuff and visor combination consists of an Australian made TA570 Type 1 vented safety helmet, X4 Peltor cap attached earmuffs and V4B Peltor Mesh Visor and peaked visor holder.

Suitable for applications where head, hearing and low impact face protection is required. This kit is suitable for forestry and timber processing applications.



3M Order Code	Model #	Description
AT019447112	TA570WHKIT7	TA570 Chainsaw Combination Kit

## Sweat Band HYG50

Replaceable Plastic Sweatband which is suitable for all general industrial use with Peltor™ HeadGear G500.



3M Order Code	Model #	Description
XA007703854	HYG50	Sweat Band - Plastic

# Face Protection

## 3M™ Peltor Mesh Visor V4B

The V4B Visor system is extremely lightweight and non-conductive, which is a necessary feature in some environments such as working with electric power cables. Made of black polyamide with a matt finish, system includes visor, helmet frame and linkage kit, which will attach to either a P3E 30mm or a P3G 24mm slotted adaptor. Designed to be used with or without Peltor earmuffs. Meets the impact requirements of AS/NZS 1337.2 Medium Impact.



3M Order Code	Model #	Description
XH001650239	V4B	Peltor Black Polyamide Visor System

## 3M™ Peltor Clear Visor Large V4K

The V4K provides greater protection area against splashes, high speed particles and debris. Excellent high impact-resistant colourless visor, made from high quality polycarbonate. Visor includes helmet frame and cap attachment. Lets through 95% of light. UV filter Approved for protection against short circuit electric arc, Molten metals and hot solids. Meets the impact requirements of AS/NZS 1337.1 High Impact.



3M Order Code	Model #	Description
XA007702328	V4K	Clear Visor Polycarb Large CECE

## 3M™ Face Shield Clear 5F-11 PC

The polycarbonate face shield 5F-11 (compatible with the V5 shield carrier) provides increased protection against high speed particles (190m/s). It is scratch resistant and anti-fog treated on both sides for the maximum field of view. Compatible with the V5 Face shield carrier. Meets the impact requirements of AS/NZS 1337.1 High Impact.



3M Order Code	Model #	Description
UU001470994	5F-11 PC	Field Shield Clear - AS+AF

## 3M™ Peltor Visor V2C

The V2C provides great protection against high speed particles and UV/IR radiation. Made from high quality polycarbonate, which features with scratch resistant properties. The visor peak and visor are designed to slope to minimise glare and debris. Meets the impact requirements of AS/NZS 1337.1 High Impact.



3M Order Code	Model #	Description
XH001651575	V2C	Peltor 140AR Polycarb Visor - Hard Hat

## 3M™ Peltor Mesh Visor V4G

Design ensures excellent strength and stability. This visor, made of steel with a matt finish, is for extremely harsh working environments. System includes visor, helmet frame and linkage kit, which will attach to either a P3E 30mm or a P3G 24mm slotted adaptor. Designed to be used with or without Peltor earmuffs. All mesh visors are tested and approved AS/NZS 1337.2:2012 (low impact) and meet the requirements for increased robustness (S marking). Meets the impact requirements of AS/NZS 1337.2 Low Impact



3M Order Code	Model #	Description
UU001607181	V4G	Peltor Mesh Visor - Metal

## 3M™ 5B Mesh Face Shield

High quality product that provides protect against impacts from the front and side. Firm and sturdy for improved product life. The 5B mesh face shield is lightweight, sturdy, have increased robustness for protection against high speed particles (45m/s), without compromising the field of view and user comfort. Compatible with the V5 Face shield carrier. Meets the impact requirements of AS/NZS 1337.2. Low Impact.



3M Order Code	Model #	Description
XA007703870	5B	Mesh Face Shield Plastic

## 3M™ Mesh Visor

Mesh visors provide low impact protection and are excellent in working environments where humidity causes fogging. Additional safety eye protection must be worn beneath the visor. Metal mesh visors are suitable for protection against heat. The metal mesh visor absorbs the heat, allowing the user to work in comfort. Mesh is generally used for protection against large dust particles and abrasion making it suitable for vegetation cutting and trimming.

### Applications

The VV602M and VM820 visor is suitable for both brush cutting and trimming, where the main hazard is large pieces of solid material and constant abrasion. Selection of the right mesh is dependent on the amount of particulate protection in relation to the visibility required in the application. Mesh visors are recommended for low impact protection only. Additional eye protection must be worn beneath the visors.



VM820



VV602M

3M Order Code	Model #	Description
AT010659723	VV602M	Brass Mesh Visor 200mm X 300mm (suitable for use with FXVH400 and VH500 Holders)
AT010707407	VM820	Aluminium Mesh Visor 150mm X 385mm (suitable for use with FXVH400 and VH500 Holders)

**3M** Science.  
Applied to Life.™



# Eye Protection

The portfolio of 3M™ Eye Protection products promises quality eyewear that provides an optimal balance of comfort, protection and design. 3M™'s Engineers have worked hard to ensure that the level of comfort and style matches the standard of protection offered. The 3M™ portfolio offers the highest level of optical class. A broad range of eyewear products include durable anti-scratch and convenient anti-fog coatings.

# About the range.

Eye Protection products are used in many industries to protect against flying particles, liquids, chemicals, molten metals, radiated heat and glare. The 3M™ range of safety spectacles and goggles offer the user protection from eye hazards including medium impact flying fragments.

Our 3M™ safety spectacles and goggles can be used in conjunction with other Personal Protective Equipment products to give you added protection in different situations.

The 3M™ eye protection portfolio offers an unrivalled range of products for companies looking for comfortable and high-quality solutions to meet a variety of industrial applications.



### **Style.**

Style is a critical factor when it comes to raising the acceptance of the user to wear personal protective equipment (PPE). 3M™'s range of eyewear gives you a variety of modern and stylish products from which to choose.

### **Protection.**

The 3M™ range of eyewear offers high quality optics. Most of the 3M™ glasses and goggles offer reliable UV protection and all are tested and comply with AS/NZS1337.1

### **Comfort.**

Many of our products come with adjustable features and soft materials in points of contact in order to improve fit and comfort to accommodate different face sizes and shapes.

### **Compatibility.**

Eye protection often needs to be worn in conjunction with other protective equipment and it is essential that comfort and fit with other PPE is maintained. Most of the eyewear and goggle ranges can be used in combination with respiratory and hearing protection by 3M™. Compatibility with other PPE will be subject to a number of variable factors which requires the employer and end user to determine an appropriate selection depending on individual needs.

# Human eye.

**The Cornea** in direct contact with an external environment, plays an essential part in the transmission of light rays. There are more nerve endings in the cornea than anywhere else in the body.

**The Pupil** (light controller), situated in the middle of the iris, works like the diaphragm of a camera. Its diameter changes in accordance with the light levels.

**The Lens** allows focusing (near vision, far vision) thanks to a control muscle. With age this muscle loses power and impacts near vision (presbyopia). The lens can lose its transparency due to exposure to IR (infrared light) and UV (ultraviolet light), resulting in loss of vision (cataract).

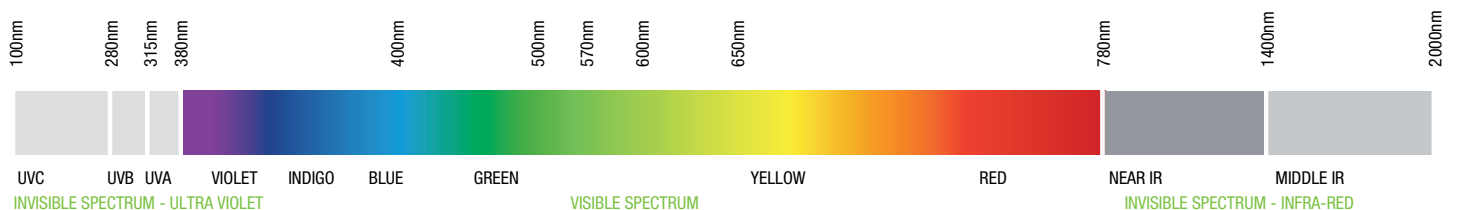
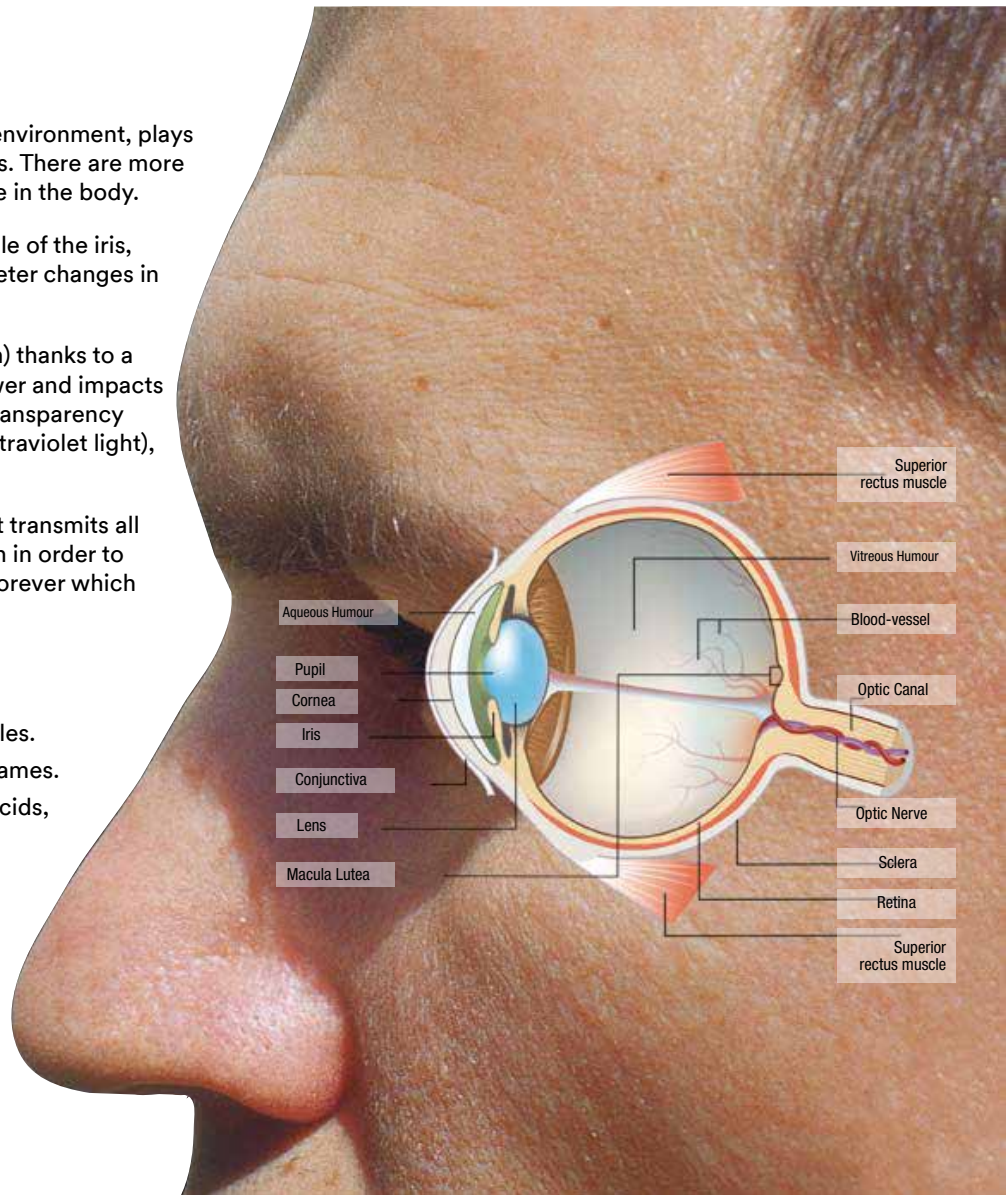
**The Retina** is where all light beams converge; it transmits all information through the optic nerve to the brain in order to create your vision. Burned retina cells are lost forever which causes irreversible loss of vision.

## Industrial hazards for the eyes:

- Mechanical hazards: dust, shock, solid particles.
- Thermal hazards: hot liquid, molten splash, flames.
- Chemical or Biological hazards: splashes of acids, solvents, alkalis, infected blood.
- Radiation hazards: ultraviolet, infrared, visible light, laser.
- Electrical hazards: direct contact, short-circuit electric arc.

## Facts on eye damage:

Every day worldwide more than 600 workers suffer from eye injury simply because they do not wear protective eyewear.



## Potential Effects from Exposure to Light and other Radiation.

	UVC 100 to 280nm	UVB 280 to 315nm	UVA 315 to 380nm	BLUE LIGHT 380 to 480nm	VISIBLE LIGHT 380 to 780nm	NEAR IR 780 to 1400nm	MIDDLE IR 1400 to 2000nm
<b>Cornea</b>	Conjunctivitis Partial Blindness	Conjunctivitis Partial Blindness	Conjunctivitis Partial Blindness				
<b>Lens</b>	Conjunctivitis	Cataract Premature Ageing	Cataract Premature Ageing			Cataract	Conjunctivitis Partial Blindness
<b>Retina</b>	Conjunctivitis			Partial Blindness Photoreinitis	Vision Problems Discontinuous Vision	Retinitis Pigmentosa	

# Protection all the way.

Eyewear injuries happen when you least expect them.  
Be prepared.

We believe that health and safety are the priorities in any working environment, and that greater comfort and modern styles improve worker compliance with regulatory requirements for protective eyewear.

Therefore, we take care in adding comfort features where they are needed most, such as heavy contact areas like nose bridges and temple tips. The materials we choose to provide better comfort are designed to be durable to last and soft to the touch. We are also continually working on new coatings, new materials and new designs to bring the latest technology, innovation and fashion into our protective eyewear line.

### What contributes to eye injuries at work?

- **Not wearing eye protection.** Nearly three out of every five workers injured are not wearing eye protection at the time of the accident.
- **Wearing the wrong kind of eye protection for the job.** 40% of the injured workers were wearing some form of eye protection when the accident occurred. However, these workers were most likely to be wearing protective eyeglasses with no side shields.

### What causes eye injuries?

- **Flying particles.** Almost 70% of accidents resulted from flying or falling objects or sparks striking the eye. Injured workers estimated that nearly three-fifths of the objects were smaller than a pinhead. Contact with chemicals caused one-fifth of the injuries.

### Where do accidents occur most often?

- **Craftwork.** Potential eye hazards can be found in nearly every industry, more than 40% of injuries occurred among craft workers, like mechanics, repairers, carpenters and plumbers.
- **Industrial equipment operation.** Over a third of the injured workers were operators, such as assemblers, sanders, and grinding machine operators. Almost half of these injured workers were employed in manufacturing.

### How can eye injuries be prevented?

- **Always wear effective eye protection.** AS/NZ standards require that employers provide workers with suitable eye protection. To be effective, the eyewear must be of the appropriate type for the hazard encountered and properly fitted.
- **Better training and education.** Workers injured while not wearing protective eyewear most often said they believed it was not required by the situation. Even though the vast majority of employers furnished eye protection at no cost to employees, about 40% of the workers received no information on where and what kind of eyewear should be used.
- **Maintenance.** Eye protection devices must be properly maintained. Scratched and dirty devices reduce vision, cause glare and may contribute to accidents. Scratched or damaged eyewear should be replaced immediately.



# How to pick the right tinted safety glasses for your job.

Safety glasses come in numerous shapes and styles, but do you know how to choose the right tinted safety glasses for your job? Safety glasses are available in many different tints that serve many different purposes, depending on the job at hand and your environment. Tinted safety glasses can help reduce glare, reflect bright light, absorb harmful light, including UV and infrared (IR), and even increase contrast in your field of vision. We're discussing the reasons why selecting the right lens for your specific application is so important and sharing what you need to know about popular lens tints.

## Why does choosing the right lens matter?

### Safety

The top reason why lens tint matters comes down to safety. When you're wearing the right colour of tinted lenses, not only will this help protect your eyes from the hazards of the job at hand, your eyes can feel less fatigued from strain that can result from different working conditions. This can result in fewer instances of workers removing eyewear from their face due to discomfort, thereby keeping them safer. It's also important to look for eyewear that meets AS/NZS 1337.1:2010, which means it has passed impact testing and other safety requirements that can help protect your eyes.

### Health

The right eyewear can help reduce light sensitivities, eye strain and headaches for wearers. Polycarbonate lenses contain UVA and UVB coatings, which help protect eyes from light conditions that can damage them and increase a wearer's risk of developing eye disease, including cataracts. Different people have different needs, and choosing the right lens tints can be beneficial to a worker's health.

### Productivity

Certain lens tints provide contrast and can help workers see fine details better and more easily. This can help workers complete certain tasks more accurately and more quickly.

### Comfort

This is one of the most important considerations when choosing a lens tint – and personal protective equipment (PPE) in general! When PPE is comfortable, workers are more likely to wear it and keep it on. This is why 3M produces so many different styles of safety eyewear and encourages sampling different pairs of safety glasses to see what will work for a worker's individual face size and shape. To help objectively measure comfort and fit, we specially developed the 3M™ Eyewear Fit Testing System to help measure gaps and fit around the eyes to promote optimal protection and comfort.

## 3M™ Protective Eyewear Lens Tints.

### Clear

It likely isn't a surprise that clear safety glasses are the most popular choice of safety glasses. Luminance transmittance is the highest with clear safety glasses, at 93%. This means that a clear lens allows for the maximum amount of light to pass through the lens, which is beneficial for tasks requiring well-lit environments. Safety eyewear lenses made with polycarbonate will naturally absorb approximately 99% of UVA and UVB light, which provides additional protection to the user. All 3M polycarbonate lenses have been tested to the newest AS/NZS 1337.1:2010 to ensure compliance and safety. Safety glasses with clear lenses are best for everyday use and are appropriate for a wide variety of applications and uses.



# Protective eyewear.

## Polycarbonate lens selection guide

This Polycarbonate Lens Selection Guide will help you understand the need for different colour lenses and lens types for industrial applications. It will also help you determine what type of lens is best for your application and environment. There are many lens options other than Clear, Grey and Mirror. When choosing a lens, the basic “rule of thumb” is to consider colour opposites.

Lens Colour/Type	Lens Properties/Use	Suggested Applications/Environments
Clear	Maximum amount of light reaches the eye for good vision and acuity.	General everyday eye protection.
Grey, Bronze	Reduces brightness and glare from the sun.	Mainly for outdoor daytime use as in typical sunglass use.
Mirror & Coloured Mirror	Reduces brightness and glare from the sun.	Mainly for outdoor daytime use as in typical sunglass use.
Indoor/Outdoor	Reduces brightness and glare when working both indoors and outdoors.	For tasks requiring frequent movement indoor to/from outdoor. Loading docks, forklift drivers, construction or similar jobs.
Photochromic	Reduces brightness and glare from the sun and indoor lighting.	Lens darkens when outside and lightens when inside. Do not use for frequent indoor to/from outdoor movement.
Polarized	Reduces brightness and glare from the sun.	Exceptional for reducing reflective glare. Mainly for outdoor use.
Yellow/Amber	Increases contrast, reduces haze from blue lighting, excellent UV protection.	Good for inspection tasks and hazy, overcast or foggy days. Never use for night driving.
Filter Shades, Green & Grey	Reduces ultraviolet, visible and infrared radiation.	Predominately used for gas welding, cutting, brazing and soldering, metal making, furnace work and open flames.



Mirror & Coloured Mirror



Indoor/Outdoor



Photochromic



Yellow/Amber



Clear



Polarized



Filter Shades Grey & Green



Grey, Bronze



# Lens markings.

Markings on eye protectors are a requirement for certification. It assists users in identifying their intended use.

They are identified by the following:

Standard	Lens Marking	Explanations
AS/NZS 1337.1:2010	I = Medium Impact O = Outdoor/Indoor (untinted or amber)	OUTDOOR UNTINTED (FOR INDOOR AND OUTDOOR USE) These protectors are intended for indoor and outdoor use where no optical radiation hazards exist other than solar radiation.
	I = Medium Impact (outdoor tinted, smoke, brown or photo chromatic)	OUTDOOR TINTED These protectors are intended for outdoor use where no optical radiation hazards exist other than solar radiation. They are intended to provide adequate protection against sun glare and ultraviolet radiation from the sun.
	Filter Lenses (green shade 3)	These filter lenses are intended for welder assistant use and provide limited protection against ultraviolet. Infrared and visible radiation. Not suitable for electrical welding.

Impact protection is determined by the metres per second in which a projectile travels. A ballistic test rig fires either a 6.00mm or a 6.35mm projectile ball at speeds from 12m, up to 190m per second dependent on which size projectile is used.

Standard	Rating	Ball Speed		Impact Protection Situations	Type of Protector
		6.00mm	6.35mm		
AS/NZS 1337.1:2010	Low Impact	12m/sec	12m/sec	Hammering, handling wire, brick chipping by hand	Spectacles
AS/NZS 1337.1:2010	Medium Impact	40m/sec	40m/sec	Grinding, machining metals, woodworking	Spectacles, Eyeshields or lightweight visor systems
AS/NZS 1337.1:2010	High Impact	120m/sec	110m/sec	Concrete cutting, high speed disc grinding, metal cutting	Visor systems only
AS/NZS 1337.1:2010	Extra High Impact	190m/sec	175m/sec	Abrasive shot blasting, ballistic, military, electrical maintenance	Visor systems only

Australian/New Zealand Standards AS/NZS 1336:2014 is an excellent reference document and provides assistance. Medium impact safety spectacles provide protection from medium energy flying particles. For more information on tinted lenses and compliance testing to AS/NZS 1067 (sunglass standard) contact 3M.

# Features selection guide.

	Lens Tints or Shades												
	Medium Impact	Clear	Grey	Smoke	Brown	Green	Amber	Sunset	Blue	Shade 3	Shade 5	Blue Locker	
<b>SAFETY EYEWEAR</b>													
3M™ SecureFit™ 100 Series	✓	✓	✓				✓						
3M™ SecureFit™ 200 Series	✓	✓	✓										
3M™ SecureFit™ 400 Series	✓	✓	✓										
3M™ SecureFit™ 500 Series	✓	✓	✓		✓		✓						
3M™ Solus™ 1000 Series	✓	✓	✓										
3M™ Savannah Series	✓	✓		✓	✓								
3M™ Ecko Series	✓	✓		✓									
3M™ Buster Series	✓	✓		✓			✓		✓	✓	✓		
3M™ Bark Hut Series	✓	✓		✓					✓				
3M™ 2700 Series	✓	✓											
3M™ 2720 Series	✓	✓											
3M™ Virtua	✓	✓	✓				✓						

Lens Coatings								Comfort				Adjustability		
I/O	Mirror	Anti-Scratch Lens	Anti-Fog Lens	Polarised	UV Protection	Scotchgard™ Coated	Anti-Static	Soft Nose	Soft Temple Tips	Pressure Diffusion Temple Technology	Dust Guard	Gasket	Replacement Strap	
✓		✓	✓		✓					✓				
		✓	✓		✓					✓				
	✓	✓	✓		✓			✓		✓		✓		
✓		✓	✓		✓	✓				✓	✓			
		✓	✓		✓	✓		✓	✓			✓	✓	
		✓	✓		✓				✓		✓			
	✓	✓			✓									
		✓			✓			✓	✓					
				✓	✓						✓			

## 3M™ SecureFit™ Protective Eyewear 100 Series

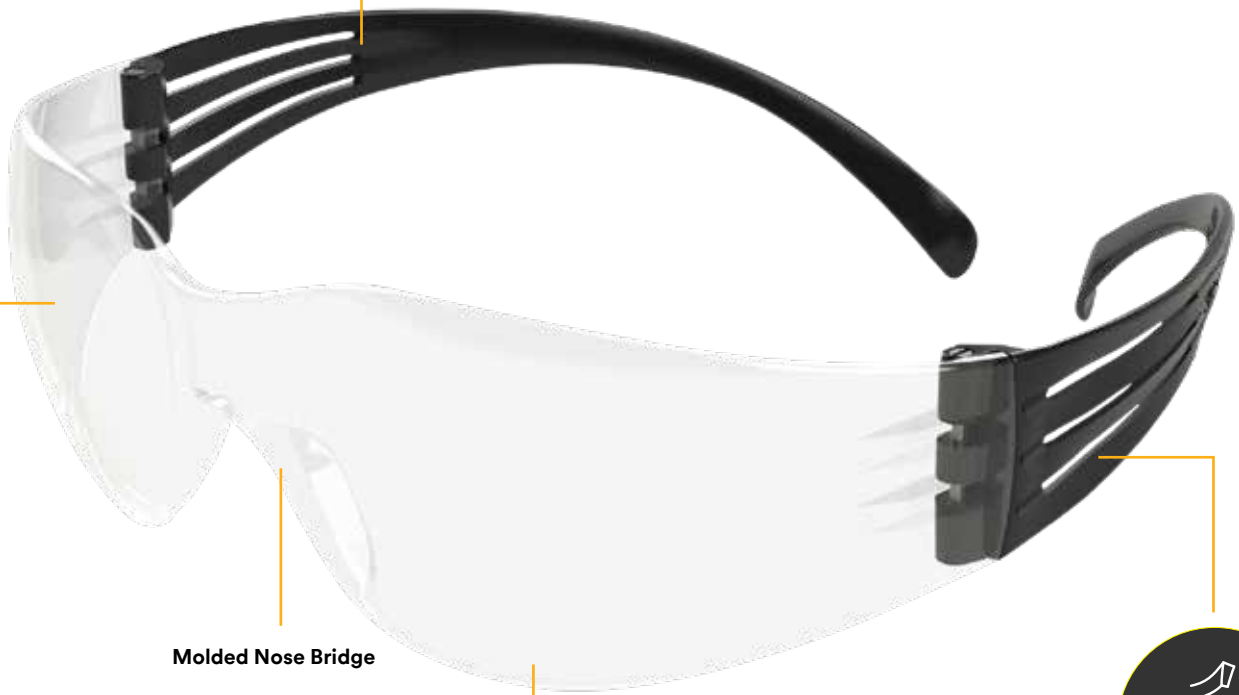
3M™ SecureFit™ 100 Series Protective Eyewear features a sleek, sporty lens shape and self-adjusting temples, providing a stylish yet comfortable fit for an extended period of time

### Features and Benefits:



#### 3M™ Pressure Diffusion Temple Technology

- Features slotted ribs that provide comfortable pressure equalisation.
- The temples flex and self-adjust to the size of the wearer's head



Molded Nose Bridge

Slim Standout Style

#### Choose Your Coating

- Anti-Scratch
- Anti-Fog/Anti-Scratch



#### Flat and Flexible Temple Design

Combines well with 3M™ Protective Earmuffs

#### Polycarbonate Lenses

- U6 rated polycarbonate lenses absorb 99.9% of UVA, UVB and UVC rays between 200 nm and 380 nm
- Workers can feel confident wearing 3M Eye Protection that meets the Impact-Rated Protector requirement of the AS/NZS 1337.1:2010 Standard



SF101AF-BLK



SF101AS-BLK



SF102AF-BLK



SF103AF-BLK



SF107AF-BLK

3M Order Code	Model #	Description
AT019494601	SF101AF-BLK	3M™ SecureFit™ Eyewear SF101AF-BLK, Clear Anti-Fog-Anti-Scratch
AT019494619	SF101AS-BLK	3M™ SecureFit™ Eyewear SF101AS-BLK, Clear Anti-Scratch
AT019494627	SF102AF-BLK	3M™ SecureFit™ Eyewear SF102AF-BLK Grey Anti-Fog-Anti-Scratch
AT019494635	SF103AF-BLK	3M™ SecureFit™ Eyewear SF103AF-BLK, Amber Anti-Fog-Anti-Scratch
AT019494643	SF107AF-BLK	3M™ SecureFit™ Eyewear SF107AF-BLK, Indoor Outdoor Grey Anti-Fog-Anti-Scratch

# 3M™ SecureFit™ Protective Eyewear 200 Series

The right fit changes everything. 3M™ SecureFit™ 200 Series Protective Eyewear features temples that automatically self-adjust to help provide a secure, comfortable fit every time.

## Features and Benefits:

### Polycarbonate Lenses

- U6 rated polycarbonate lenses absorb 99.9% of UVA and UVB.
- Meets the requirements of AS/NZS 1337.1:2010.



Contemporary and lightweight, weighs less than 30 grams

Molded Nose Bridge

### Choose your coating

- Anti-Fog/Anti-Scratch lens coating



### 3M™ Pressure Diffusion Temple Technology

- Features slotted ribs that provide comfortable pressure equalisation.
- The temples flex and self-adjust to the size of the wearer's head



SF201AF-AS



SF202AF-AS

3M Order Code	Model #	Description
70071676269	SF201AF-AS	3M™ SecureFit™ 200 Clear Anti-Fog Lens
70071695509	SF202AF-AS	3M™ SecureFit™ 200 Grey Anti-Fog Lens

# 3M™ SecureFit™ Protective Eyewear 400 Series

Advanced Technology. 3M™ SecureFit™ Protective Eyewear self-adjusts to the individual wearer, providing comfort that lasts all day.

3M™ SecureFit™ Protective Eyewear 400 Series comes with a variety of features, because having options in protective eyewear can be critical. Workers can choose from several lens coating options, including 3M™ features like a removable foam gasket that combines with Pressure Diffusion Temple (PDT) Technology to create a secure and comfortable fit.

## Features and Benefits:

**Polycarbonate lenses** absorb 99.9% of UVA & UVB. Meets the requirements of AS/NZS 1337.1:2010.

**Removable foam insert** helps keep debris out of your eyes while providing comfort and cushioning.

**Soft, adjustable, one-piece nose bridge** for an individual comfortable fit.

**Dual-injected, padded temple touchpoints** for added comfort over the ears.

**Motion-inspired, contoured piping** in a bold, modern colour palette for an infusion of style and cushioning.

**Self-adjusting 3M™ Pressure Diffusion Temple Technology** ensures a comfortable and a secure fit and prevents slippage.



SF401AF-AS



SF402AF-AS



SF410AS-AS

3M Order Code	Model #	Description
70071676368	SF401AF-AS	Polycarbonate. Clear Lens.
70071695426	SF402AF-AS	Polycarbonate. Grey Lens.
70071695434	SF410AS-AS	Polycarbonate Indoor/Outdoor Mirror Lens.
70071675345	SF-FOAM	SecureFit™ Foam Gasket

# 3M™ SecureFit™ Protective Eyewear 500 Series

3M™ SecureFit™ 500 Series features a contemporary lens design coupled with adjustable ratchet temples and 3M™ Pressure Diffusion Temple (PDT) technology to help provide a more personalised fit. This sporty eyewear also offers self-adjusting coloured temples, a variety of lens tints and models with Scotchgard™ Protector Anti-Fog Coating.

## Features and Benefits:



### Adjustable Ratchet Temples

- Multiple position ratchet allows user to adjust lens for facial features and eyeglass position.
- Adjustable ratcheting temples are designed to help improve the positioning of eyewear when worn with half-facepiece respirators

### 3M™ Pressure Diffusion Temple Technology

- 3M's innovative temple design features slotted ribs that provide comfortable pressure equalisation
- Temples flex and self-adjust to the size and shape of wearer's head

### Curved Temples for Enhanced Security

- Eyewear design applies pressure on the less sensitive back of the head instead of temples
- Helps achieve a comfortable fit, even during rapid head movement

### Slim Standout Style

- Contemporary lens shape

### Molded Nose Bridge

- No removeable parts

### Polycarbonate Lenses

- U6 rated polycarbonate lenses absorb 99.9% of UVA, UVB, and UVC rays between 200 nm and 380 nm
- Workers can feel confident wearing 3M eye protection have been tested and certified to AS/NZS 1337.1:2010 and have a medium impact rating.

### Choose your coating

- Anti-Fog / Anti-Scratch
- 3M™ Scotchgard™ Anti-Fog Protector Coating

- Resists fogging longer than traditional anti-fog coatings through up to 25 washings with water\*
- Helps provide scratch resistance in tough work environments
- Designed for working in challenging situations, such as hot and humid conditions, indoor/outdoor work, physically demanding tasks and climate-controlled areas



SF501AF-BLK

SF501SGAF-BLK

SF501SGAF-BLK-FM

SF502SGAF-BLK

SF503SGAF-BLK

SF507SGAF-BLK

SF505SGAF-DGR

SF528SGAF-DGR

3M Order Code	Model #	Description
AT019494437	SF501AF-BLK	3M™ SecureFit™ Eyewear SF501AF-BLK, Clear Anti-Fog/Anti-Scratch
AT019494445	SF501SGAF-BLK	3M™ SecureFit™ Eyewear SF501SGAF-BLK, Clear, Scotchgard™ Anti-Fog/Anti-Scratch
AT019494452	SF501SGAF-BLK-FM	3M™ SecureFit™ Eyewear SF501SGAF-BLK-FM, Clear, Scotchgard™ Anti-Fog/Anti-Scratch, Foam Gasket
AT019494478	SF502SGAF-BLK	3M™ SecureFit™ Eyewear SF502SGAF-BLK, Grey, Scotchgard™ Anti-Fog/Anti-Scratch
AT019494494	SF503SGAF-BLK	3M™ SecureFit™ Eyewear SF503SGAF-BLK, Amber, Scotchgard™ Anti-Fog/Anti-Scratch
AT019494528	SF507SGAF-BLK	3M™ SecureFit™ Eyewear SF507SGAF-BLK, Indoor/Outdoor, Scotchgard™ Anti Fog/Anti-Scratch
AT019494502	SF505SGAF-DGR	3M™ SecureFit™ Eyewear SF505SGAF-DGR Olive Green, Brown lens, Scotchgard™ Anti-Fog/Anti-Scratch
AT019494569	SF528SGAF-DGR	3M™ SecureFit™ Eyewear SF528SGAF-DGR Olive Green, Light Brown lens, Scotchgard™ Anti-Fog/Anti-Scratch

## 3M™ Solus™ Protective Eyewear 1000 Series

Slim frame with a stylish and modern look. Strong PC lenses. Lightweight with soft cushioning on nose bridge and padding on temples for increased comfort and stability and when worn.

### Features and Benefits:

**Removable foam-lined gasket** helps limit eye exposure to nuisance dust while providing added comfort and cushioning.

Removable padded temples with optional elastic strap/ headband



**Contemporary styling** with soft nose bridge for added comfort

#### Polycarbonate Lenses

- U6 rated polycarbonate lenses absorb 99.9% of UVA and UVB.
- Meets the requirements of AS/NZS 1337.1:2010.

- Resists fogging longer than traditional anti-fog coatings through up to 25 washings with water\*
- Helps provide scratch resistance in tough work environments
- Designed for working in challenging situations, such as hot and humid conditions, indoor/outdoor work, physically demanding tasks and climate-controlled areas



S1201SGAF-AS

S1202SGAF-AS

Medium Impact

3M Order Code	Model #	Description
70071676533	S1201SGAF-AS	With Scotchguard™ Anti-fog coating. Green/Black PC. Clear Lens
70071676541	S1202SGAF-AS	With Scotchguard™ Anti-fog coating. Green/Black PC. Grey Lens
70071694551	FOAM GASKET	Replacement Foam Gasket
70071694569	SOLUS-STRAP	Replacement Strap



## 3M™ Bark Hut

High fashion matt black frame. Lightweight and extremely comfortable. Robust and flexible frame. Hard coat anti-fog (HCAF) coating on selected models. 100% UV protection for outdoor use. Suitable for use with cutting, non hazardous liquids, lathe work, dust, sawing, chipping, riveting, glare and solar radiation. Clip on/off dust guard for dusty working environments



Medium Impact

3M Order Code	Model #	Description
AT010658295	SNN007BB	Blue Blocker Hc Lens Spec
AT010658303	SNN007C	Clear Hcaf Lens Spec
AT010658311	SNN007CDG	Clear Hcaf Lens Spec Dust Guard
AT010658329	SNN007GP	Smoke Graduated Pol Hc Lens Spec
AT010658345	SNN007S	Smoke Hcaf Lens Spec
AT010658352	SNN007SDG	Smoke Hcaf Lens Spec Dust Guard

## 3M™ Ecko

Ultra lightweight disposable spectacles. One piece wrap-around sports style. Medium impact protection. Low cost. 100% UV protection for use outdoors. Anti-scratch lens increases durability. Suitable for general industry including mining, construction, laboratory workers



Medium Impact

3M Order Code	Model #	Description
AT010658428	SNN170C	Ecko Clear Lens Spec
AT010658444	SNN170S	Ecko Smoke Lens Spec
AT010658436	SNN170CM	Ecko Clear Mirror Lens Spec

## 3M™ Savanah

Lightweight polycarbonate spectacle frame. Wrap-around style with flexible side arms and temple grips. Medium impact protection. 100% UV protection for use outdoors. Anti-scratch lens increases durability. Anti-fog (clear only) lens prevents fogging in humid conditions. Suitable for general industry including fabrications, manufacturing, mining and laboratory work



Medium Impact

3M Order Code	Model #	Description
AT010658568	SNN301C	Clear Af Lens Spec
AT010658584	SNN301S	Smoke Lens Spec
AT010658550	SNN301B	Brown Lens Spec
AT010659343	SXDG301	Dust Guard

## 3M™ Buster

Fashionable, lightweight and comfortable safety spectacles. Unique floating lens with excellent coverage. Medium impact protection. 100% UV protection for use outdoors. Anti-scratch lens increases durability. Suitable for general industry including manufacturing, engineering, workshops and indoor/outdoor industrial environments



Medium Impact

3M Order Code	Model #	Description
AT010658402	SNN101C	Clear Af Lens Spec
AT010658410	SNN101S	Smoke Lens Spec
AT010658386	SNN101A	Amber Af Lens Spec
AT010658394	SNN101BM	Blue Mirror Lens Spec
AT010658360	SNN101:3	Shade 3 Lens Spec
AT010658378	SNN101:5	Shade 5 Lens Spec

# Eye Protection

## 3M™ Virtua™ AP Classic Line Series

Designed with high-wrap polycarbonate lenses and integral sideshields to provide comfortable fit and ultimate protection.



Medium Impact

3M Order Code	Model #	Description
70071649464	11818-00000-100AS	Clear Lens
70071649449	11815-00000-100AS	Grey Lens
70071649456	11817-00000-100AS	Amber Lens

## 3M™ 2720 Series

Low profile for comfort with high levels of protection



Medium Impact

3M Order Code	Model #	Description
70071649522	2720-00000-100AS	Blue Frame/Clear Lens in Polybag

## 3M™ 2700 Series

Designed for use over prescription glasses



Medium Impact

3M Order Code	Model #	Description
70071649514	2700-00000-100AS	Clear Frame/Clear Lens in Polybag

## 3M™ Fahrenheit™ Goggle Series

Modern, slim-line and lightweight design for excellent fit. Aerodynamic shape with cylindrical lens for 180 degree distortion-free vision. Indirect ventilation system to prevent fog, liquids and dust. Lens absorbs more than 99% UV.



3M Order Code	Model #	Description
70071531621	40170-00000	Polycarbonate Clear Lens
70071531639	40171-00000	Polycarbonate Clear Lens
70071531647	40172-00000	Acetate Clear Lens
70071531654	40173-00000	Black Foam Frame. Polycarbonate Clear Lens

## 3M™ Cotton Bound Disposable Dust Goggle

Disposable Dust Goggles SZ828. Clear economical goggles with 100% UV protection. Acetate lens. Elasticated nylon strap. Soft cotton bound face seal. All round ventilation for greater comfort. Not suitable for impact protection. Ideal for dusty, windy environments



3M Order Code	Model #	Description
AT010659376	SZ828	Cotton Bound Disposable Dust Goggle

## 3M™ GoggleGear™ 500 Series

The 3M™ Goggle Gear, 500-Series is a low-profile design with an adjustable neoprene strap and indirect ventilation. These splash goggles with 3M™ Scotchgard™ Anti-Fog Coating help keep lenses clear in, steamy and wet environments. The Science Behind 3M™ Scotchgard™ Anti-Fog Technology 3M™ Scotchgard™ Anti-Fog Technology brings higher anti-fog performance to safety eyewear, helping workers see more clearly to complete on-the-job tasks. The anti-fogging properties are based on 3M internal testing per EN168 test method when compared to traditional anti-fog coatings. Here is how the anti-fogging properties work. When microscopic water droplets land on lenses without any type of coating, they bead up and form condensation and fog, obscuring your vision.

### Features and Benefits:

- 3M™ Scotchgard™ Anti-Fog Coating lasts longer\* than traditional anti-fog coatings, helping to increase eyewear performance in wet and steamy environments
- Workers may enjoy reliable, clearer sight longer, because the coating with its active ingredient is bonded to the lens. The coating retains its effectiveness for at least 25 washings with water, allowing workers to wear their eyewear longer
- The coating can be disinfected with diluted bleach soaking or alcohol wipes without losing its anti-fog performance. Washing with soap and water is considered a best practice and can enhance coating durability.
- The coating withstands disinfection with diluted bleach soaking or alcohol wipes without losing its anti-fog performance



3M Order Code	Model #	Description
70071676582	GG501NSGAF-AS	GG500 GoggleGear™ 500 Series with Scotchguard™ Anti-fog coating. Polycarbonate. Clear Lens.

# 3M™ Lens Cleaner EasyClean Anti-Fog Wipes

The 3M EasyClean lens cleaning towelettes are available with 300 individually wrapped towelettes in one easy dispensing box. 3M towelettes cleaning and purify personal safety equipment and protect your workers. The Towelettes leave an anti-static, anti-fog coating on the lenses after each clean. Towelettes remove dust and contamination from safety equipment ensuring equipment is left clean and germ free.

### Features and Benefits:

- Designed to clean lenses of all types
- Individually wrapped / easy to apply
- Removes dust and contamination
- Anti-static / Anti-fog coating
- Box of 300



3M Order Code	Model #	Description
AT010653783	EC005	Lens Cleaner Easyclean AF Wipes 300pk