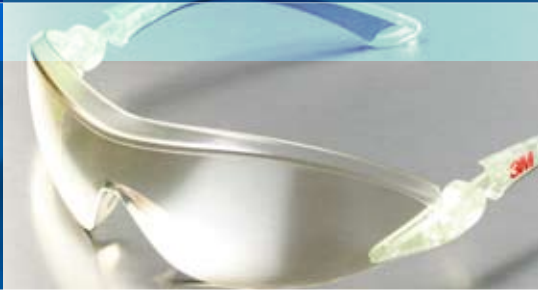


3M Occupational Health & Environmental Safety Division  
Catalogue for Eye Protection Products



# Eye Protection



## Take your safety personally



3M, the world's leader in safety and protective equipment, is proud to have the Peltor™ brand range as part of its product offering.

The new portfolio of 3M™ Eye Protection products promises superior quality eyewear that provides an optimal balance of comfort, protection and design.

It is our goal to ensure that we satisfy your needs through the provision of exceptional leadership, expertise, quality and service excellence. With our global technology, manufacturing and knowledge network we do more than simply develop products that help your workforce to operate in safety and comfort. Advanced engineering and technology paired with the high standard of quality and innovation of a continuously evolving range of product solutions that you, our customers, come to expect from 3M.



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### Protection all the way

Our mission is to help protect people at work, at home, for life.

We believe that health and safety is the priority in any working environment and that greater comfort improves worker protection, resulting in enhanced productivity and safety compliance.

### Long lasting innovations

To deliver on our commitment requires a culture of accountability, customer inspired innovation, knowledge and expertise, fuelled by a deep understanding of our customer needs. The 3M Brand, trusted as a leader in eye protection, safety goggles and spectacles.

### Working together

3M is more than just products. We work closely with distributors, safety professionals and companies to protect employees exposed to hazardous environments. With offices around the world, 3M can help our customers succeed everywhere.



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# Style & Protection



## 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 to choose from.

## Protection

The premium range of safety spectacles offers the highest optical class. A broad range of eyewear products include durable anti-scratch and convenient anti-fog coatings. Most of the safety spectacles and goggles by 3M offer reliable UV protection and are all approved to EN166:2001 and are CE marked.

## Comfort

Many of our products come with adjustable features and soft materials often used at point 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 range 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 require the employer and end user to conduct an appropriate selection depending on individual needs.

### ICON KEY



#### ASPHERICAL LENS

Most lenses are constructed using spherical curves (sections from a ball shape) which are of constant curvature. The human face has irregular curves which are better followed by an aspheric (non spherical) curve.



#### LIQUID SPLASH OR DROPLETS

The ventilation and coverage features give protection to the user in the event of accidental splashes or spray of hazardous liquids.



#### DUST

Careful design of ventilation features resists the penetration of large dust particles to provide protection for the user.



#### MOLTEN METAL

The design provides resistance to penetration and adhesion of molten metal.



#### ROTATING TIPS

New soft material rotating tips to hold the eyewear in place in all situations.

### COATING DESCRIPTIONS

#### Anti-Scratch (AS)

Super multi-layered coating providing extreme protection from abrasion.

#### Anti-Fog (AF)

This coating reduces fogging.

#### Anti-Scratch- Anti-Fog (AS-AF)

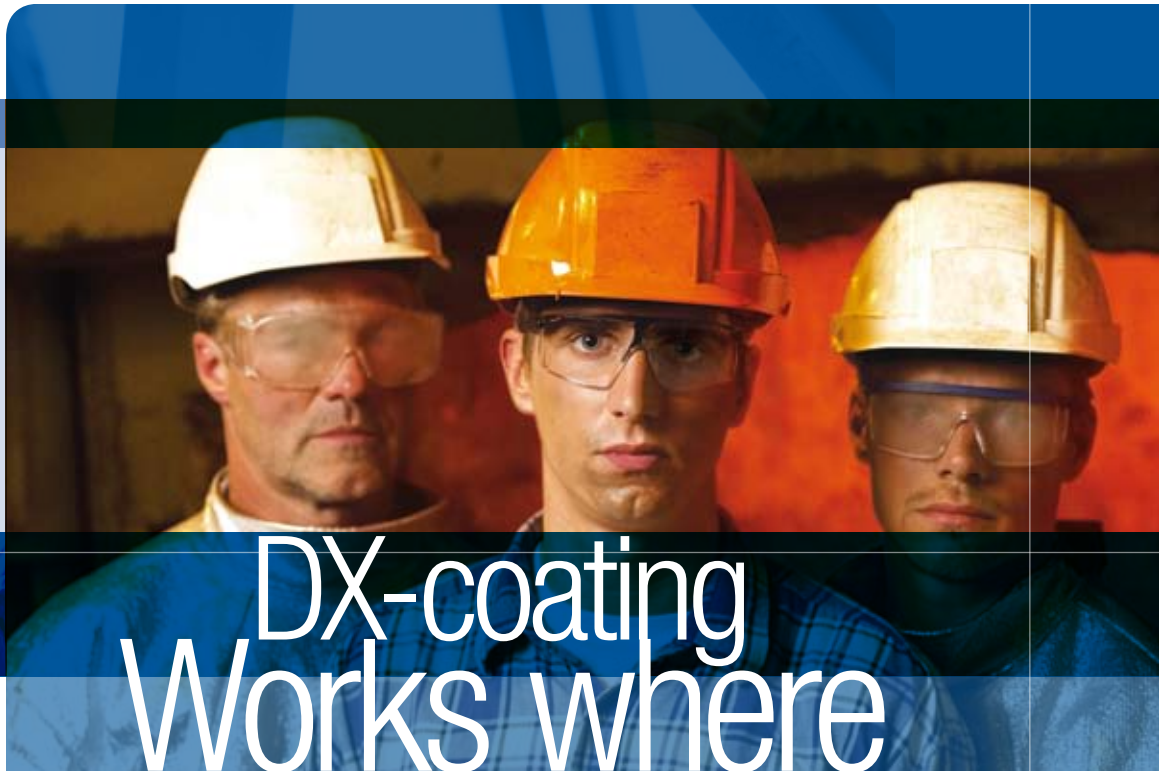
This coating combination provides an extreme protection against scratching and fogging.

#### DX

A state of the art coating provides an extreme protection against mist, scratches, static and provides chemical resistance.

#### Mirror

Specific sun glare coating providing protection against scratches, UV, sunlight and glare by reflecting harmful light.



# DX-coating Works where other coatings fail



The DX coating is unique. It is a state-of-the-art combination: abrasion resistant, anti-mist, anti-static and provides chemical resistancy. Four key reasons why DX coating provides all day protection from all these elements.

The DX coating results in lenses that maintain their clarity and hence provide vital eye protection for longer periods: this DX anti-mist coating has an unlimited life.

This exclusive in-house coating technology is continuously monitored to ensure the optimum performance.

A very simple test will convince you of the superiority of our in-house developed DX coating. Make a pot of really hot tea or coffee. Hold the lenses over the steaming brew. If you are very quick you might see a thin film spreading rapidly across the surface and then disappear. The film is almost impossible to detect. After the film has formed you will see no further change on the lens. It is completely transparent and offers perfect vision. Indeed if you hold the lenses long enough over the brew, drips will form along the lower edge.

# 3M™ Comfort Overspectacles



## 3M™ 2800 Series Overspectacles







2805



2800

Over-Spectacles are designed to fit over most users' prescription spectacles with minimal interference. They offer an excellent coverage and field of vision, combined with a high level of protection against impacts. Adjustable length temples (four positions) for optimal comfort and fit. Inclinable lens for easy adjustment and maximum comfort. Soft low profile temples for comfort and minimum interaction with prescription spectacles.

Lens colour	Product code	Frame	Lens	Coating	Filter
	2800		PC - Clear	AS	UV
	2805		PC - Shade 5	AS	Welding (UV - IR)



## 3M™ OX 1000 Overspectacles



Real over-specs that are comfortable and offer a perfect fit over any kind of prescription glasses. Light weight for added comfort, 3M™ OX 1000 is the basic version with standard temples and an uncoated polycarbonate lens. No metal parts (perfect for electricians).

Lens colour	Product code	Frame	Lens	Coating	Filter
	17-5118-0000P		PC - Clear	-	UV

## 3M™ OX 2000 Overspectacles



3M™ OX 2000 comes with adjustable lock-in temples (5 positions) and rotating tips (excellent grip in all positions) The flatter polycarbonate screen features the DX Coating for perfect protection against mist and provides chemical resistance.



Lens colour	Product code	Frame	Lens	Coating	Filter
	17-5118-2040P		PC - Clear	DX	UV

## 3M™ OX 3000 Overspectacles



**Specially designed for Peltor™ Ear Muffs**

The natural choice for anyone wearing earmuffs. The straight adjustable temples on 3M™ OX 3000 fits perfectly in combination with Peltor™ ear protectors. The non-slip rubber tips give additional comfort.

Lens colour	Product code	Frame	Lens	Coating	Filter
	17-5118-3040P		PC - Clear	DX	UV

# 3M™ Classic Overspectacles



## 3M™ Tourgard™ Overspectacles



41170-00000

The regular size 3M™ Tourgard™ overspectacle is designed to fit over virtually any prescription spectacle. The more compact small size (41176-00000) is suited to wearing on its own or over current prescription styles.

Lens colour	Product code	Frame	Lens	Coating	Filter
	41170-00000		PC - Clear	-	UV
	41176-00000		PC - Clear	-	UV

## 3M™ Visitor Overspectacles



71448-00001C

These lightweight polycarbonate visitor spectacles have moulded sideshields and browguards, and can be worn on their own or over current style prescription spectacles.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71448-00001C		PC - Clear	-	UV



# 3M™ Premium Spectacles



## 3M™ Marcus Grönholm™ Spectacles



71462-00001CP









71462-00002CP



71462-00003CP

Metal frames with adjustable nosepiece. Formable rubber tipped temples for extra comfort and adjustability. Flat temples with spring hinges to wear under helmet. De-centered polycarbonate twin lens, deeply curved for superior eye coverage and optimal field of view.



Lens colour	Product code	Frame	Lens	Coating	Filter
	71462-00001CP		PC - Clear	AS-AF	UV
	71462-00002CP		PC - Bronze	AS-AF	Solar - Blue light
	71462-00003CP		PC - Blue Mirror	Mirror	Solar - Glare - Yellow

## 3M™ Marcus Grönholm™ Spectacles

Large size



3M™ Marcus Grönholm™ large size spectacles have the same features as the above, but are designed to fit larger sized heads. Available with a clear lens, it has formable rubber tipped temples, flat temples with spring hinges and it is also curved for superior eye coverage and optimal field of view.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71462-00004CP		PC - Clear	AS-AF	UV

# 3M™ Premium Spectacles



## 3M™ Metaliks™ Spectacles







71460-00001CP



71460-00002CP

Polished metal frame with a sleek 10-base de-centered twin lens for optimum eye coverage and optimal field of vision. Comfortable spatula temples with soft tips for a perfect fit. Soft adjustable nose pads to custom fit virtually all shapes and sizes.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71460-00001CP		PC - Clear	AS-AF	UV
	71460-00002CP		PC - Grey	AS-AF	Solar



## 3M™ Metaliks™ Sport Spectacles



71461-00001CP



71461-00002CP











71461-00003CP



71461-00004CP



Metal frames with saddle type nosepiece. Formable rubber tipped temples for extra comfort and adjustability. De-centered polycarbonate twin lens, strongly curved for superior eye coverage and optimal field of vision.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71461-00001CP		PC - Clear	AS-AF	UV
	71461-00002CP		PC - Amber	AS-AF	UV - Blue light
	71461-00003CP		PC - Blue Mirror	Mirror	Solar - Glare
	71461-00004CP		PC - Grey	AS-AF	Solar

# 3M™ Premium Spectacles



## 3M™ Fuel™ Spectacles



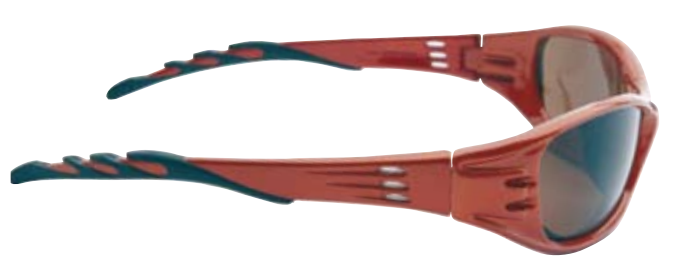
71502-00002CP



71502-00003CP



71502-00001CP



71502-00004CP

**Designed to be worn at work, at home or during outdoor recreational activities.**

3M™ Fuel™ High-Performance safety glasses are made from a high density nylon material for impact, torsion and extreme heat resistance. The frame's moulded lens supports prevent the lenses from being dislodged by a strong frontal impact. Ventilation system on nose bridge and temples to prevent fogging.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71502-00001CP		PC - I/O Mirror	Mirror	Solar - Glare
	71502-00002CP		PC - Blue Mirror	Mirror	Solar - Glare
	71502-00003CP		PC - Red Mirror	Mirror	Solar - Glare
	71502-00004CP		PC - Bronze	AS-AF	Solar - Blue light



FUEL comes with its own microfibre pouch, which both protects and cleans the lens when needed. Also available as an accessory (ref 26-6780-00P)



## NEW 3M™ Fuel™ X2 Series Spectacles



71506-00000M



71506-00001M

An ultra efficient blend of comfort and style, Fuel X2 offers a refined look and superb features. The revolutionary frame design features bold new grooved styling, rubber over-moulded adjustable temples and a fully adjustable nose-bridge. The sleek frame profile and rimless lower lenses helps ensure that protection and performance remain uncompromised.



71502-00002M

Lens colour	Product code	Frame	Lens	Coating	Filter
	71502-00000M		PC - Clear	AS-AF	UV
	71502-00001M		PC - Bronze	AS-AF	Solar - Glare
	71502-00002M		PC - Red Mirror	AS-AF	Solar - Glare

## 3M™ Fuel™ Polarised Spectacles



A new and unique addition to the 3M™ Fuel™ range of safety spectacles (sunglasses). This is the first safety spectacle on the European market with dark grey polarised lenses.

This gives the wearer the optimal comfort against horizontal glare and a better perception of the contrast in bright environments. This is in addition to its proven impact performance and protection against harmful UV.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71502-00005CP		PC - Polarised	AS	Solar - Glare

# 3M™ Premium Spectacles



## 3M™ Force-3™ Spectacles



71502-10000CP



Silver Mirror anti-fog lens



I/O Mirror lens

Thanks to a revolutionary concept of interchangeable lenses, 3M™ Force-3™ spectacles delivers 3 sets of gasket lenses for ultimate versatility. This complete kit includes a sleek stylish frame with torsion resistance temples, maxi-impact engineered lenses for extreme safety and a Mirror Coating for extreme UV protection and better scratch resistance.

Choice between 3 gasket lenses: I/O (Indoor/Outdoor), Silver Mirror anti-fog and Red Mirror anti-fog. Comes complete with a microfibre pouch (for both protection and cleaning the lens), an adjustable headband and a storage bag for the 2 pairs of replacement gasket lenses.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71502-10000CP		PC - Red Mirror	Mirror	Solar - Glare
	71502-10000CP		PC - Silver Mirror	Mirror	Solar - Glare
	71502-10000CP		PC - I/O Mirror	Mirror	Solar - Glare

### Delivered with all these elements



### Easily Interchangeable Gasket Lens System: three pairs in one kit



Step 1



Step 2



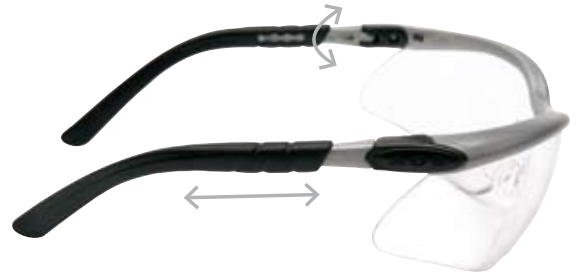
Step 3



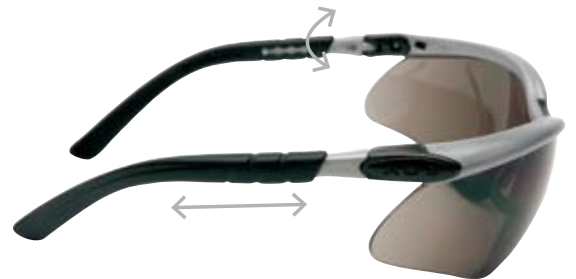
## 3M™ BX™ Spectacles







11380-0000P



11381-0000P



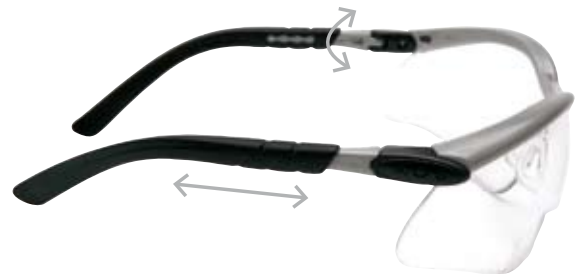
The sleek, contoured and fully adjustable 3M™ BX™ Spectacles are designed for today's flexible work force. Soft tip temples to improve comfort. Soft, universal-fit nose bridge. Adjustable length temples with pantoscopic system (3 angles for custom fit). Available in clear and grey solar anti-fog lens options.

Lens colour	Product code	Temple	Lens type	Coating	Filter
	11380-0000P		PC - Clear	AS-AF	UV
	11381-0000P		PC - Grey	AS-AF	Solar




## 3M™ BX™ Readers Spectacles



11374-0000P



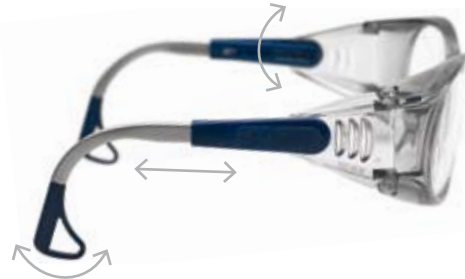
3M™ BX™ spectacles with injected bi-focal Polycarbonate lenses available in 3 powers: +1.50, +2.00 and +2.50 dioptres. The bottom part of the lens with the prescription allows magnification for reading or precision work, while giving excellent protection against flying particles and has an anti-fog coating.

Lens power	Product code	Temple	Lens type	Coating	Filter
+1.50	11374-0000P		PC - Clear	AS-AF	UV
+2.00	11375-0000P		PC - Clear	AS-AF	UV
+2.50	11376-0000P		PC - Clear	AS-AF	UV

# 3M™ Premium Spectacles



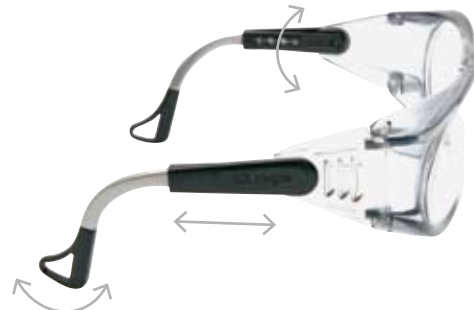
## 3M™ Eagle™ Spectacles



With unrivaled performance, 3M™ Eagle™ is the first choice for protective eyewear with standard or prescription lenses. The translucent Grilamid (plastic) frame with integrated side shields offers superior orbital protection. Pantoscopic temples adjustable also in length, (3 positions), secure perfect fit. New soft rotating tips provide a secure grip whatever the situation.

Lens colour	Product code	Frame	Lens	Coating	Filter
	01-3021-10P		CR39 - Clear	AS	-
	01-3022-10P		CR39 - Clear	AS	-
	02-3022-01P		Mineral - Clear	-	-
	04-3021-20P		PC - Clear	AS	UV
	04-3021-40P		PC - Clear	AS-AF	UV
	04-3022-20P		PC - Clear	AS	UV
	04-3022-40P		PC - Clear	AS-AF	UV
	02-3022-98P		Mineral Neoprotect	-	Orange Yellow

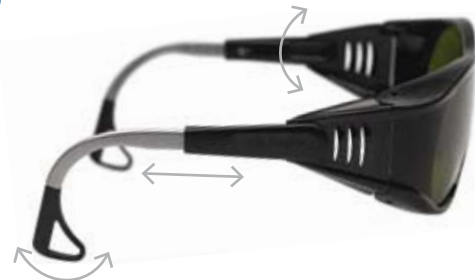
## 3M™ Eagle™ Near Vision Spectacles



3M™ Eagle™ with fully-adjustable temples fitted with single vision clear Polycarbonate lenses. Available in 3 lens power: +1.50, +2.00 and +2.50. Standard pupil distance of 64mm. Magnification lenses for working with small detail (precision work, quality control, work with electronic components).

Lens power	Product code	Frame	Lens	Coating	Filter
+1.50	04-3150-20P		PC - Clear	AS	UV
+2.00	04-3200-20P		PC - Clear	AS	UV
+2.50	04-3250-20P		PC - Clear	AS	UV

## 3M™ Eagle™ Welding Spectacles



The polycarbonate lens eliminates the UV, reduces IR levels and secures perfect eye comfort by controlling visible light. Can be used in all situations where UV, IR or visible light creates a risk. Available in shade 1,7 (welder's assistant) up to 7,0 (oxy cutting).







Lens colour	Product code	Frame	Lens	Coating	Filter
	27-3024-03P		PC - 3,0	AS	Welding (UV-IR)
	27-3024-05P		PC - 5,0	AS	Welding (UV-IR)
	27-3024-07P		PC - 7,0	AS	Welding (UV-IR)



## 3M™ Eagle Clip-On









Black Grilamid clip-on specially designed for the Eagle frames. The clip-on can easily be fixed thanks to a click-in system on the bridge of the frame.

Lens colour	Product code	Frame	Lens	Coating	Filter
	06-3421-29		Mineral - Neotherm	-	Yellow - IR
	28-3421-05		PC - 5.0	AS	Welding (UV-IR)
	28-3421-07		PC - 7.0	AS	Welding (UV-IR)

## 3M™ Eagle Clip-On Near Vision











Clip-on Near Vision for 3M™ Eagle™ frame. Comes with clear Polycarbonate Hardcoated single vision lenses in +1.50, +2.00 and +2.50 dioptres. Magnification lenses for working with small details (precision work, quality control) or for presbyopics who need to stay protected when they need to read in the work environment.

Lens colour	Product code	Frame	Lens	Coating	Filter
	06-3150-20P		PC - Clear	AS	
	06-3200-20P		PC - Clear	AS	
	06-3250-20P		PC - Clear	AS	

## 3M™ Universal Clip-On



Clip-on which can be added to any kind of prescription glasses. A spring system gives the ability to adjust it in 3 different positions. The clips to fix the lenses are in plastic material in order to preserve the prescription lenses from scratch.

Lens colour	Product code	Frame	Lens	Coating	Filter
	22-5038-20		PC - Clear	AS	UV
	22-5038-25		PC - Grey	AS	Solar
	28-5038-03		PC - 3.0	AS	Welding (UV-IR)
	28-5038-05		PC - 5.0	AS	Welding (UV-IR)

# 3M™ Premium Spectacles



## 3M™ 2750 Series Spectacles







2751



2750

3M™ 2750 spectacles combine attractive and modern styling with a wraparound design for increased wearer confidence. They are available in 2 lens options.

Soft, comfortable, ventilated nose bridge. Adjustable temple length offers 5 positions to suit the individual. Slim nose bridge and flat temples for improved compatibility with other PPE. Ideal combination with 3M™ 9300 Series and 3M™ 4000 Series Respirators and the 3M™ 7500 Series Half Masks

Lens colour	Product code	Frame	Lens	Coating	Filter
	2750		PC - Clear	AS-AF	UV
	2751		PC - Grey	AS-AF	Solar



## **NEW** 3M™ 1200E Series Spectacles







71509-00000M



71509-00001M

With inspired designs, low energy impact lenses and a solid frame construction, the new 1200E styles deliver the looks, attitude and brand that workers want to wear.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71509-00000M		PC - Clear	AS-AF	UV
	71509-00001M		PC - Grey	AS-AF	Solar

# 3M™ Premium Spectacles



## 3M™ LED Light Vision™ Spectacles



This safety spectacle is equipped with an adjustable ultra-bright LED with long battery life (over 50 hours). The 2 lithium CR2032 batteries are included and can be easily changed. The frame has rubber temples and rubber nose pads for extra-comfort. The Polycarbonate anti-fog lens protects against UV and impact at extreme temperatures.

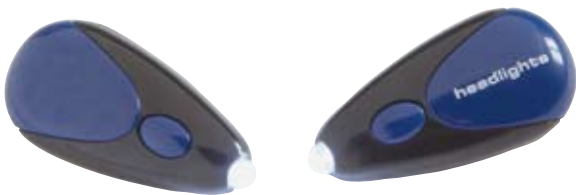
3M™ Led Light Vision™ will allow you to light a dark zone while protecting your eyes and having hands-free for working. This new innovation opens new horizons for safety: electrical work, car repair, plumbing, home-work, mechanical work in dark environment, night time reading.

Lens colour	Product code	Frame	Lens	Coating	Filter
	11356-00000P		PC - Clear	AS-AF	UV



3M™ LED Light Vision™ comes with its own microfibre pouch which both protects and can be used to clean the lens when needed.

## 3M™ Headlights



3M™ Headlights are adjustable ultra-bright LED's they are easy to fit and compatible with all safety spectacle frames. The 2 lithium CR2032 batteries are included and have a battery life of over 50 hours and can be easily changed.

3M™ Headlights will allow you to light a dark zone without having to change your existing plano or prescription spectacles, whilst still protecting your eyes and leaving your hands-free for working. This new innovation opens new horizons for safety: electrical work, car repair, plumbing, home-work, mechanical work in dark environment, night time reading.

Product code : 26-4000-00P



## **NEW** 3M™ Refine™ 300 Series Spectacles







71507-00000M



71507-00001M

Better fit means better protection. Refine 300 Safety Eyewear is especially designed to fit smaller head & face shapes. The result is excellent coverage with fewer gaps where dangerous particulates or flying debris can damage the eyes.

Appealing, well-fitting design will lead to increased wearer acceptance and compliance.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71507-00000M		PC - Clear	AS-AF	UV
	71507-00001M		PC - Bronze	AS-AF	Solar

# 3M™ Comfort Spectacles



## 3M™ 2840 Series Spectacles



2840



2845



2844



2841



2846



2842

With a new, unique style, the 3M™ 2840 Spectacles have been designed with user comfort and convenience in mind. The temples are fully inclinable and adjustable in length for optimal fit. The soft inner padding offers increased comfort.

The 3M™ 2840 Spectacles feature a strong polycarbonate lens with anti-scratch and anti-fog coating (except 3M™ 2844) and intergrated browguard.

An adjustable temple length (three positions) for comfort and optimal fit. Soft inner padding on temple for increased comfort and stability when worn. Inclinable lens enabling individual adjustment and optimal personal fit.

Works well with 3M™ 9300 Series and 3M™ 4000 Series Respirators and the 3M™ 7500 Series Half Masks.

Lens colour	Product code	Frame	Lens	Coating	Filter
	2840		PC - Clear	AS-AF	UV
	2841		PC - Grey	AS-AF	Solar
	2842		PC - Amber	AS-AF	UV - Blue Light
	2844		PC - I/O Mirror	Mirror	Solar Glare
	2845		PC - Shade 5	AS-AF	Welding (UV-IR)
	2846		PC - Orange	AS-AF	UV - Blue Light





## 3M™ Maxim™ Spectacles

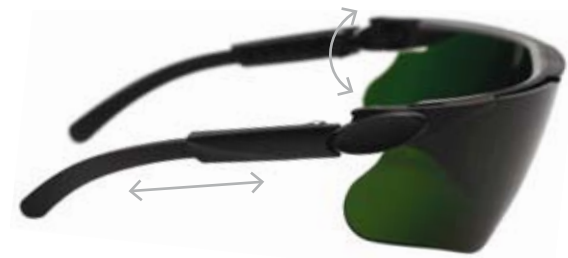


13225-0000P

The aspherical lens for 180° of Pure Vision and superior eye coverage. Ventilation channel across the lens to minimise misting. DX Coating to resist fogging, scratching and chemicals. Soft, universal-fit nosebridge. Dual-injected cushion browguard for extra comfort and shock absorption. Adjustable length temples with pantoscopic system.

Lens colour	Product code	Frame	Lens	Coating	Filter
	13225-0000P		PC - Clear	DX	UV
	13226-0000P		PC - Bronze	DX	Solar - Blue light
	13227-0000P		PC - I/O Mirror	Mirror	Solar - Glare
	13228-0000P		PC - Amber	DX	UV - Blue light
	13229-0000P		PC - Clear	DX	UV

## 3M™ Maxim™ Welding Spectacles



13224-0000P

Welding filter. Protection against impact, UV, visible light and IR. Conforms to European Standards EN166 and EN169. Application: gas welding, brazing, oxy-acetylene cutting. DX-coating and aspherical lens.

Lens colour	Product code	Frame	Lens	Coating	Filter
	13323-0000P		PC - 3.0	DX	Welding (UV-IR)
	13324-0000P		PC - 5.0	DX	Welding (UV-IR)



# 3M™ Comfort Spectacles



## 3M™ Maxim™ Minimizer Spectacles



This unique filter provides UV, glare and IR protection while allowing good visibility (50% of light transmittance) with perfect colour recognition. Perfect for a welder's assistant and welding environment.

Lens colour	Product code	Frame	Lens	Coating	Filter
	13325-0000P		PC Minimizer	Mirror	Welding (UV-IR)

## 3M™ RX Insert for Maxim™ Series Spectacles



Metal semi-rimless prescription insert for the Maxim and Maxim Ballistic. To be attached into the nose bridge. The optimal solution for multi-task adaptability.

**Product code** 407-19-00000

To be clipped into the space between the frame and the lens on the top. Can be fitted with CR39 or Polycarbonate lenses.  
Product code = 40719-00000 (prescription insert only, without lenses)





## 3M™ Maxim™ Ballistic Spectacles



13296-00000



Specially designed for Peltor™ Ear Muffs



13297-00000

In addition to the aspherical lens and the soft adjustable nose bridge, this specific model has short flat temples with pantoscopic adjustment. Designed specifically to wear in combination with a helmet and or ear muffs, this model exceeds Military Vo test regimen for high velocity impact (Standard MIL-STD 662 - impact at 198m/s)

Lens colour	Product code	Frame	Lens	Coating	Filter
	13296-00000		PC - Clear	DX	UV
	13297-00000		PC - Bronze	DX	Solar - Blue light
	13298-00000		PC - I/O Mirror	Mirror	Solar - Glare
	13299-00000		PC - Amber	DX	UV - Blue light

## 3M™ Maxim™ Ballistic Utility Pack

The perfect belt-pack for military / police personnel, utility service or regular leisure users. The black case contains three filter types: clear, bronze and amber. Case can also be bought separately. Comes with flat temples and an adjustable nylon headband (minimal attenuation loss when fitted with a Peltor™ Earmuff).

The headband can also be bought separately (Ref : 16610-00000P), as well as the hard case (Ref : 12-0700-00PE).

Lens colour	Product code	Frame	Lens	Coating	Filter
	13200-99999A		PC - Clear	DX	UV
			PC - Bronze	DX	Solar - Blue light
			PC - Amber	DX	UV - Blue light





# 3M™ Comfort Spectacles



## 3M™ Maxim™ Ballistic Vermillion Spectacles








Lens colour	Product code	Frame	Lens	Coating	Filter
	13326-00000P		PC - Vermillion	DX	UV - Green light

## 3M™ Maxim™ Ballistic Shooting Kit

Similar to the 3M™ Maxim™ Ballistic Tac Pack, the Shooting Kit is delivered in a hard case with velcro, belt clip, and snaps. It has an additional vermillion lens which is specifically designed for shooting against green backgrounds.



Lens colour	Product code	Frame	Lens	Coating	Filter
	13300-99999P		PC - Clear	DX	UV
			PC - Bronze	DX	Solar - Blue light
			PC - Amber	DX	UV - Blue light
			PC - Vermillion	DX	UV - Green light

## 3M™ Maxim™ Sport Spectacles



Contemporary, athletic styling with dual-colour frame design. Aspherical lens featuring 180° of Pure Vision and DX-coating. Sport Grip dual-injected temples and browguard with soft elastomeric cushion for an enhanced fit and impact absorption.

Lens colour	Product code	Frame	Lens	Coating	Filter
	13240-00000P		PC - Clear	DX	UV

The DuoForm dual-injection technology helps to produce an incredibly lightweight frame with elastomeric cushion browguards for superior comfort and energy absorption. Thanks to this new technology, the frame exceeds the standards for impact, including the military Vo Test Regimen for high velocity impact (standard MIL-STD 662 – impact at 198m/s).

Bi-material browguard also gives an excellent protection from hazardous materials.

Sport-Grip flat temples produced with the DuoForm Technology fit behind the head for optimum comfort with or without ear defenders or helmets (does not touch the sensitive part of the ear).





# 3M™ Solus™ Spectacles



71505-00001CP



71505-00001CP



71505-00005CP



71505-00004CP



71505-00006CP



71505-00003CP



71505-00009CP



71505-00008CP

From colour-accented temples, to the high profile dual lens look of fashion street wear, Solus brings sophistication and comfort to safety eyewear. The purity of the lens design gives the wearer a freedom of vision and at only 23g offers comfort never achieved before. The lens curve has been calculated to optimise the fitting, field of vision and coverage of the eyes.

3M™ Solus™ Spectacles are also available in a new blue lens with a light flash mirror coating to remove eye stress and fatigue often occurring in monochromatic (single colour) yellow lit environments. Perfect in work environments where there is strong glare from bright lighting (outdoor, semiconductor fabrication, photolithography and similar industries where there is medium to high levels of yellow incandescent/ fluorescent lamps, or high and low pressure sodium vapour lighting). The Flash Mirror coating will also help to reflect the glare for an extraordinary comfort for the eyes.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71505-00001CP		PC - Clear	AS	UV
	71505-00002CP		PC - Clear	AS-AF	UV
	71505-00003CP		PC - Bronze	AS-AF	Solar - Blue Light
	71505-00004CP		PC - Amber	AS-AF	UV - Blue Light
	71505-00005CP		PC - I/O	Mirror	Solar Glare
	71505-00006CP		PC - Red Mirror	Mirror	Solar Glare
	71505-00007CP		PC - Clear	AS	UV
	71505-00008CP		PC - Clear	AS-AF	UV
	71505-00009CP		PC - Blue Mirror	Mirror	Solar - Glare - Yellow



SOLUS comes with its own microfibre pouch, which protects and cleans the lens when needed

# 3M™ Comfort Spectacles



## 3M™ 2740 Series Spectacles



2742









2740



2741

The 3M™ 2740 Spectacles combine a modern design with various adjustment options leading to increased comfort and protection. They are available in 3 lens options.

Stylish and modern design. Temple pivots enable the user to adjust the lens angle providing optimal fit and comfort. Adjustable temple length offers a secure and comfortable fit to suit the individual. Soft temple tips reduce pressure making them extremely comfortable to wear.

Lens colour	Product code	Frame	Lens	Coating	Filter
	2740		PC - Clear	AS-AF	UV
	2741		PC - Grey	AS-AF	Solar
	2742		PC - Yellow	AS-AF	UV - Blue Light



## 3M™ 2730 Series Spectacles



15237-00000

The 3M™ 2730 Spectacles combine a modern design with various adjustment options leading to increased comfort and protection.

Stylish and modern design. Temple pivots enable the user to adjust the lens angle providing optimal fit and comfort. Adjustable temple length and soft nose bridge offers a secure and comfortable fit to suit the individual. Soft temple tips reduce pressure making them extremely comfortable to wear.

Lens colour	Product code	Frame	Lens	Coating	Filter
	2730		PC - Clear	N/A	UV









## 3M™ Lexa Spectacles



15237-00000

The 3M™ Lexa was specifically designed to curve around the face. The refined, sleek design means the spectacle is unobtrusive when worn and almost invisible. Rimless style design means that the user has improved field of vision.

Soft adjustable nose piece with adjustable lock in temples which allows for 3 pantoscopic positions for improved comfort and fit.

Lens colour	Product code	Frame	Lens	Coating	Filter
	15237-00000		PC - Clear	DX	UV
	15233-00000		PC - Clear	DX	UV
	15297-00000		PC-I/O	Mirror	Solar Glare
	15236-00000		PC-Grey	DX	Solar

# 3M™ Comfort Spectacles



## 3M™ QX1000 Spectacles



04-1021-0140N

The economical version of the 3M™ QX Series, offers exceptional protection with a revolutionary sports design.

Lens colour	Product code	Frame	Lens	Coating	Filter
	04-1021-0140N		PC - Clear	DX	UV
	04-1021-0246N		PC - Amber	DX	UV - Blue light
	04-1021-0245N		PC - Grey	DX	Solar

## 3M™ QX2000 Spectacles



04-1022-0245N

The protection design and extraordinary comfort offered by 3M™ QX 1000 plus two unique innovations: rotating temple tips and reversible nosepiece (2 Sizes)

Lens colour	Product code	Temple	Lens type	Coating	Filter
	04-1022-0140N		PC - Clear	DX	UV
	04-1022-0146N		PC - Amber	DX	UV - Blue Light
	04-1022-0245N		PC - Grey	DX	Solar

## 3M™ QX3000 Spectacles



04-1023-0140N

3M™ QX 3000 Spectacle is the most sophisticated in the 3M™ QX Series, thanks to its flexible reversible nosepiece and the "Strap" System™ the latest development in technology.

Lens colour	Product code	Frame	Lens	Coating	Filter
	04-1023-0140N		PC - Clear	DX	UV
	04-1023-0245N		PC - Grey	DX	Solar
	04-1023-0246N		PC - Amber	DX	UV - Blue Light

## 3M™ Nassau™ Plus Spectacles



14706-00000

3M™ Nassau™ Spectacles' functional one piece lens and shideshield snaps into the simple brow-guard which has adjustable temples.







Lens colour	Product code	Frame	Lens	Coating	Filter
	14700-00000		PC - Clear	DX	UV
	14706-00000		PC - Clear	DX	UV

## 3M™ Nassau™ Rave Spectacles



14492-00000

3M™ Nassau™ Spectacles add functional one piece lens and sideshield snaps into the simple brow-guard which has adjustable temples. The Nassau Rave adds a substantial ventilation and pantoscopic (angle) adjustment.

Lens colour	Product code	Frame	Lens	Coating	Filter
	14492-00000		PC - Clear	DX	UV
	14498-00000		PC - Shade 3	DX	Welding (UV-IR)
	14499-00000		PC - Shade 5	DX	Welding (UV-IR)

# 3M™ Classic Spectacles



## 3M™ 2820 Series Spectacles



2821



2820









2822

Safety with Style. Very lightweight, the 3M™ 2820 Spectacles are a sleek, modern design offering excellent coverage and field of vision. They are available in 3 lens options.

Temple pivots enable the user to adjust the lens angle. Soft flexible temples offer improved comfort.

Combines well with 3M™ 9300 Series Respirators.

Lens colour	Product code	Frame	Lens	Coating	Filter
	2820		PC - Clear	AS-AF	UV
	2821		PC - Grey	AS-AF	Solar
	2822		PC - Yellow	AS-AF	UV - Blue Light







## 3M™ 2720 Series Spectacles



2720



2721









2722

Cost-effective protection and comfort. 3M™ 2720 Classic Line Spectacles are lightweight and offer the wearer high levels of comfort together with reliable protection. They are available in 3 lens options.

Lightweight and comfortable with a stylish and modern design. Slim nose bridge and flat temples for improved compatibility with other PPE.

Combines well with 3M™ 9300 Series Respirators

Lens colour	Product code	Frame	Lens	Coating	Filter
	2720		PC - Clear	AS-AF	UV
	2721		PC - Grey	AS-AF	Solar
	2722		PC - Yellow	AS-AF	UV - Blue light



# 3M™ Classic Spectacles



## 3M™ Tora™ Spectacles



71501-00001CP









71501-00002CP



71501-00003CP



Lenses and temples in combined colours intensify the contemporary smart look. 9D base curved lens offers excellent peripheral vision and perfect lateral side protection (Optical Class 1). Extremely lightweight at only 22g. 3M™ Tora™ Spectacles cool image and perfect fit makes this line of Peltor™ Protective Eyewear very popular amongst younger members of staff.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71501-00001CP		PC - Clear	AS-AF	UV
	71501-00002CP		PC - Bronze	AS-AF	Solar - Blue light
	71501-00003CP		PC - Amber	AS-AF	UV - Blue light



All TORA frames are supplied with an adjustable and easy to detach headband. This nylon cord can also be bought separately (ref. 90931-00000)



## 3M™ 2810 Series Spectacles



Very lightweight, the 3M™ 2810 Spectacles combine the more traditional style of safety spectacle with an attractive appearance. The flat flexible temples with satin finish enhance the style and user comfort and offer improved compatibility with hearing protection.

Very lightweight (21g) and flat, flexible temples  
Excellent for a smaller face size.  
Combines well with 3M™ 9300 Series Respirators.



Lens colour	Product code	Frame	Lens	Coating	Filter
	2810		PC - Clear	-	UV

## 3M™ KX™ Spectacles



The 3M™ KX™ Spectacles incorporates modern design and Hinge Clip™ technology for easy temple opening and closing. Ideal for temporary workers or visitors. Uncoated or Anti-scratch/fog versions available.

Lens colour	Product code	Frame	Lens	Coating	Filter
	17-5117-1040		PC - Clear	DX	UV
	17-5117-1100		PC - Clear	-	UV



## 3M™ Elys Sport Spectacles







The 3M™ Elys™ Sport provides performance on a budget. All day comfort from the wrap around design and is complimented by a strong scratch resistant polycarbonate lens.

Lens colour	Product code	Frame	Lens	Coating	Filter
	71480-00010C		PC - Clear	AS	UV

## 3M™ SX Spectacles



The 3M™ SX incorporates a wrap around design with a clip on nose bridge for adjustability. Comes with adjustable temple length and pivots for improved fit. Available in clear and grey polycarbonate lenses

Lens colour	Product code	Frame	Lens	Coating	Filter
	04-0072-1040		PC - Clear	AS-AF	UV
	04-0072-1045		PC - Grey	AS-AF	Solar





# 3M™ Comfort Goggles



## 3M™ 2890 Goggles





The 3M™ 2890 Safety Goggles features a modern, slim design and are available with four different options using either an acetate or polycarbonate lens with either sealed (3M™ 2890S and 3M™ 2890SA) or indirect ventilation. They are suitable for a number of different applications where a versatile, comfortable goggle is required.

Lens colour	Product code	Lens	Coating	Filter
	2890	PC - Clear	AS-AF	UV
	2890A	Acetate	AF	UV
	2890S	PC - Clear	AS-AF	UV
	2890SA	Acetate	AF	UV

## 3M™ Lexa™ Splash Goggle



Lens colour	Product code	Lens	Coating	Filter
	16670-00000	PC - Clear	DX	UV
	16671-00000	PC - Clear	DX	UV

Low profile design with extended field of vision. Soft housing gently seals to the face providing all day comfort. Ventilated with an adjustable nylon strap.

# 3M™ Comfort Goggles



## 3M™ Fahrenheit™ Goggle



Soft PVC crystal frame with a wide support area all around the face to enhance comfort. Specific channel on the side of the frame to accommodate the temple of prescription frames. Aerodynamic shape with cylindrical lens for 180° of distortion-free vision. Model specially designed to fit with prescription glasses, dust mask or respiratory half-mask. Indirect ventilation system to prevent fog, liquids and dust. The non-vented version also provides protection against gas and fumes. Wide nylon elastic strap (25mm) which is easily adjustable thanks to a buckle system and to a pivoting strap attachment mechanism. Available in polycarbonate (mechanical work) and acetate (chemical application).

Lens colour	Product code	Headband	Ventilation	Lens	Coating	Filter
	71360-00001	Nylon	Indirect	PC Clear	AS-AF	UV
	71360-00002	Nylon	Indirect	PC Clear	AS	UV
	71360-00005	Neoprene	Non-vented	Acetate	AS-AF	UV

### 3M™ Fahrenheit™ Goggles With Foam

	71360-00004	Nylon	Indirect	PC Clear	AS-AF	UV
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## 3M™ Fahrenheit™ Goggle for Peltor™ Helmet

Model specially designed to fit with the Peltor™ G3000 Solaris™ Helmet. The adjustable nylon headstrap snaps on the first hole inside the helmet shell. The goggle can also be placed on the top of the helmet when not in use. Acetate anti-fog lens and closed-cell foam for extra comfort and better hygiene. Does not absorb moisture, dust or chemical splash like standard foam.



Lens colour	Product code	Headband	Ventilation	Lens	Coating	Filter
	71360-00007	Nylon	Non-vented	Acetate	AS-AF	UV



All models come with their own microfiber pouch, which both protects and cleans the lens when needed.

## 3M™ Fahrenheit™ T-N-Wear Goggle

This specific model has been specially designed for painting, plastering, cement or grinding dust. Based on the proven technology used on professional racing helmets, the Tear-N-Wear view strip uses a clear polyester adhesive system which avoids light diffusion and eliminates distortion. The 3M™ Fahrenheit™ T-N-Wear Goggle comes ready and loaded with 2 polyester films that can be immediately removed and easily replaced. This reusable goggle has a Neoprene elastic headband and an anti-mist Acetate lens for excellent heat, chemical and scratch resistance. Replacement strips are available in packs of 10. Supplied with a microfiber pouch.



Lens colour	Product code	Headband	Ventilation	Lens	Coating	Filter
	71360-00003	Neoprene	Indirect	Acetate	AS-AF	UV



Replacement strips:  
71360-00006 Pack of 10 T-N-Wear polyester lens protector for the 3M™ Fahrenheit™ T-N-Wear Goggle



# 3M™ Flyer™ Goggle



15-0002-00



15-0012-00



15-0014-02

Exceptional comfort, protection and field of vision: these three assets have made the 3M™ Flyer™ Goggle the benchmark for its category. The wide range of options such as comfort foam, three types of lenses also give it great flexibility of use.

### 3M™ FLYER™ GOGGLE WITHOUT FOAM

Lens colour	Product code	Frame	Lens	Coating
	15-0002-00		Acetate	AF
	15-0003-00		PC Clear	AF

### 3M™ FLYER™ GOGGLE WITH FOAM

Lens colour	Product code	Frame	Lens	Coating
	15-0012-00		Acetate	AF
	15-0013-40		PC Clear	AF

Lens colour	Product code	Frame	Lens	Coating
	15-0014-02		Propionate	AF







# 3M™ Comfort Goggles






## 3M™ Modul-R Goggle




Very lightweight low profile goggle with TPE (thermoplastic elastomer) body providing incredible comfort and unsurpassed protection against impact, dust and chemical splashes. TPE is a material used in some respiratory masks for its softness at extreme temperature and for its excellent resistance to chemical products. The high performance ventilation system overcomes fogging problems while keeping liquids and dust out of the goggle. The nylon head strap is adjustable and thanks to a pivoting clip system, the wearer can position the goggle on a helmet.

The anti-scratch / anti-fog coated polycarbonate lens provides a distortion free field of view thanks to a highly curved form. The low profile design allows the wearer to use 3M™ Modul-R Goggle in combination with a dust mask, a half mask and a pair of prescription glasses. Replacement lenses available and also a half visor for complete face protection.

Lens colour	Product code	Headband	Ventilation	Lens	Coating	Filter
	71361-00001CP	Nylon	Indirect	PC Clear	DX	UV
 						


### Replacement lens for MODUL-R Goggle

Lens colour	Product code	Lens	Coating	Filter
	71361-00002CP	PC Clear	DX	UV

## 3M™ Modul-R Half Visor



Polycarbonate Half-Visor with adjustable ventilation system (closed or open position). Very easy strap clip attachment system. Can only be used in conjunction with the Modul-R goggle.

Lens colour	Product code	Ventilation	Lens
	71361-00003CP	Direct, Non-vented	PC Clear

# 3M™ Classic Goggles



## 3M™ 4700 Series Goggle



The 3M™ 4700 Goggle has direct ventilation for cooling comfort while offering the highest level of impact protection.

Lens colour	Product code	Lens	Coating	Filter
	71359-00000	PC Clear	-	-

## 3M™ 4800 Series Goggle



71397-00001C



A good all round goggle that provides protection against liquid splash and dust.

Lens colour	Product code	Lens	Coating	Filter
	71347-00001C	PC Clear	-	-
	71347-00004C	PC Clear	AF	-


# 3M™ Special Goggles



## 3M™ Maxim™ 2x2 Air Seal Goggle



Revolutionary safety frame able to switch from temples to a headband in a few seconds. Thanks to a quick and easy system, you can change the flat temples into a broad elastic strap for a secure fit. The headband gives the possibility of wearing this low profile spectacle with an earmuff with no attenuation loss. This advanced dual lens design also features the Air Seal for superior comfort and high impact absorption. A venting system has been designed to release heat and assist in fog reduction.

Lens colour	Product code	Lens	Coating	Filter	Protection
	71504-00002CP	PC Clear	AS-AF	UV	Impact

Changing Headband and Temple is quick and easy



Supplied with its own microfibre pouch.

## 3M™ Maxim™ 2x2 Air Seal Utility Pack

Complete kit including a hard case, a hybrid spectacle fitted with Clear anti-fog lenses, 1 pair of replacement temples, 1 black microfibre pouch, 1 pair of Amber anti-fog replacement lenses and 1 pair of Grey anti-fog replacement lenses. Easy lens replacement system. Perfect utility pack kit for inside and outside environments.



Lens colour	Product code	Lens
	71504-00001C	Clear PC
		Amber PC
		Grey PC

# 3M™ Special Goggles



## 3M™ Maxim™ Hybrid Goggle

The 3M™ Maxim™ Hybrid Goggle is a very lightweight low profile form of eyewear protection which provides the same protection as a goggle. This new product provides high comfort and unsurpassed protection against liquid droplets and mechanical hazards.


The high performance ventilation system overcomes fogging problems while keeping liquids and dust out of the goggle. The comfortable nylon head strap is adjustable thanks to a pivoting clip system that is easy to operate and provides a secure fit.




The anti-scratch / anti-fog coated polycarbonate lens provides a distortion free field of view thanks to a highly curved form providing a large field of vision far superior to other products in the market place.

The 3M™ Maxim™ Hybrid Goggle has demonstrated these properties at extreme temperatures, ideal for use in a variety of working environments.

Such working environments may include working with mechanical hazards for example riveting, grinding, stone cutting, drilling etc. Protection against chemicals or impact in tough conditions would also be provided.

Lens colour	Product code	Lens	Coating	Filter
	13330-0000P	PC Clear	DX	-

### Replacement lens for 3M™ Maxim™ Hybrid:

Lens colour	Product code	Lens	Coating	Filter
	13330-1000P	PC Clear	DX	-

# 3M™ Accessories for Eyewear

## Cleaning

Polyester/ Polyamide cloth made up of high density micro-filaments. Washable at 40°. Size 17.5 x 17.5cm



26-6710-00P



26-2000-00P

A workshop style dispenser which contains 500 sealed sachets. Each tissue is impregnated with a quick drying anti-fog, anti-static cleaning product.

**Product code**  
26-2000-00P  
26-6710-00P

**Name**  
Dispenser for 500x lens cleaning tissues  
Black microfiber lens cleaning cloth

## Cords

Conveniently fits to any spectacle and when hung around the neck, enables the user to have them readily accessible.



272

**Product code**  
16610-00000P  
90931-00000  
90933-00000  
  
90943-00000  
272

**Name**  
Adjustable nylon headband for Maxim and Maxim Ballistic  
Nylon cord with toggle adjustable system  
Adjustable cord with snap clasp for Rotating tips temples (Eagle, OX 2000)  
Universal Spectacle cord case (pack of 6)  
272 Premium Neck Cord



16610-00000P



90931 - 00000



90933 - 00000



90943-00000

## Cases

**Product code**  
12-0200-00P  
12-0300-00P  
12-0500-00P  
12-0600-00P  
26-6800-00P

**Name**  
Large rigid spec case with flap and belt loop  
Rigid plastic case with interior baize lining  
Semi-rigid case with belt loop and snap clasp  
Soft case with zipper, belt loop and snap clasp.  
Soft microfibre pouch with snap clasp for goggle (15x23cm), suitable to clean the lens.  
275 Goggle Carrying Bag



12-0200-00P



12-0300-00P



275



12-0500-00P



















12-0600-00P



26-6800-00P

# Lens Colour Table

Classification	Lens Type	Filter code	Protection	Benefits	Typical applications	Markets
Clear Lens	Clear 	2C-1.2	Impact protection (low energy), UV (A, B and C)	Visibility, good colour recognition	Mechanical work, engineering	Industrial manufacturing (metal, chemical, transportation, automotive), DIY
Clear Lens	Clear CR39 and Mineral Lenses 	N/A	Good resistance to scratching and chemicals, UV (A,B,C) protection	Visibility, good colour recognition	Chemical laboratories	Laboratories
Solar Lens	Smoke 	5-2.5 or 5-2	Impact protection (low energy), UV (A, B and C), visible light	Colour differentiation under sunlight, and reduced eye fatigue under glare conditions	Outdoor work, mechanical work with glare, vehicle drivers, road works	Industrial manufacturing, construction, roadworks, DIY
Solar Lens	Light Gold Mirror 	5-1.7	Impact protection (low energy), UV (A, B and C), glare	Mirror coating keeps lens clear while reflecting light instead of absorbing it. For both sunny and low light conditions.	Fork lift truck, mechanical work indoor/outdoor, maintenance	Construction, logistics/transport
Solar Lens	Indoor/Outdoor Lens (I/O) 	5-1.7 (EN172)	Impact protection (low energy), UV (A,B,C), glare	Good visibility in sunny and low light conditions	Fork lift truck driving, mechanical work both indoor and outdoor	Construction, logistics, transport
Solar Lens	Bronze Lens 	5-2.5 (Bronze) 5-3.1 (Dark Bronze) (EN 172)	Impact protection (low energy), UV (A,B,C), blue light (480nm)	Good visibility and colour recognition in sunlight and glare conditions.	Outdoor work and mechanical work with glare	Construction and outdoor mechanical work
Solar Lens	Blue Lens 	5-3.1 (EN172)	Impact protection (low energy), UV (A,B,C), bright light	Eliminates glare, eye stress and fatigue in monochromatic (single colour) yellow lit environments	Outdoor work, semi conductor fabrication, photolithography, sodium vapour lighting, yellow lighting	Construction and outdoor mechanical work
Solar Lens	Silver, Red, Blue Mirror Lens 	5-3.1	Impact protection (low energy), UV (A,B,C), scratches, glare	Good colour recognition in sunlight and glare conditions	Outdoor work, mechanical work with glare, recreational activities	Construction and outdoor mechanical work
Solar Lens	Grey Lens 	5-2.1	Impact protection (low energy), UV (A,B,C), scratches, glare	Good colour recognition in sunlight and glare conditions	Outdoor work, mechanical work with glare, recreational activities	Construction and outdoor mechanical work
Solar Lens	Polarised 	N/A	Impact protection (low energy), UV (A,B,C), glare	Horozontal glare, good contrast in bright environments	Outdoor work, mechanical work with glare, recreational activities	Construction and outdoor mechanical work, e.g. in wet conditions, marine
High Contrast Lens	Red-Orange 	N/A	Impact protection (low energy), UV (A, B and C), blue light from 400nm to 530nm	Filters blue light from 400nm to 530nm thus preventing damage to cornea	Polymerisation, paint and adhesive curing, crack testing	Dental, automotive repair, aerospace
High Contrast Lens	Amber 	2-1.2 (EN170)	Impact protection (low energy), UV (A,B,C), blue light (480nm)	Filter blue light and enhances contrast in low light conditions	Surface inspection, Wood's lamp, shooting, mechanical work	Shooting, dental, automotive repair, aerospace
High Contrast Lens	Vermillion 	N/A	Impact protection (low energy), UV (A,B,C)	Excellent colour recognition against green backgrounds	Shooting	Shooting, forestry, recreational activities
High Contrast Lens	Yellow 	2-1.2	Impact protection (low energy), UV (A, B and C), visible light	Enhanced contrast in low light conditions	Surface inspection, work in poor visibility/ dark environment, mechanical work	Industrial manufacturing, oil production & shooting
Welding Lens	IR Shade 5/Green  IR shade 1.7 IR shade 3.0 IR shade 5.0 IR shade 7.0	5 (EN169) or 4-5 (EN171) 1.7 3 5 7	Impact protection (low energy), UV (A, B and C), visible light, IR	Prevents welding flash burn (99.5% IR absorption)	Certain gas welding applications, brazing, cutting and welder's assistant. NOT suitable for electric arc welding.	Welding, engineering, construction, automotive, metal scrap yard
Welding Lens	Minimiser Lens 	6-1.7	Impact protection (low energy), UV (A,B,C), visible light, IR	Prevents welding flash burns, whilst improving colour recognition (compared to Green shade)	Welder's assistant, glass work feeder	As for IR shade 5

## The Human Eye:

- **The Cornea:** in direct contact with external environment, plays an essential part in the transmission of light rays.
- **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 luminosity.
- **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:** where all light beams converge, transmits all information through the optic nerve to the brain in order to create your vision. Burned retina cells are lost forever causing irreversible loss of vision.

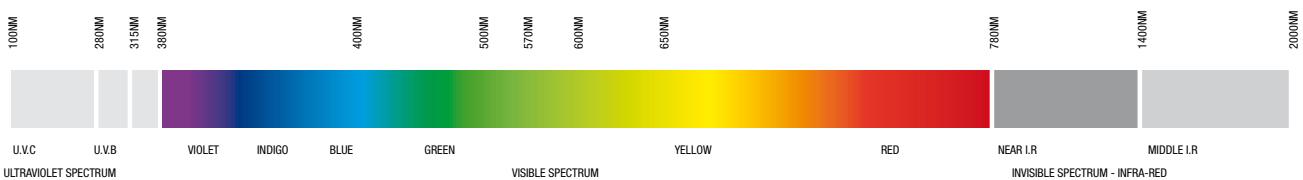
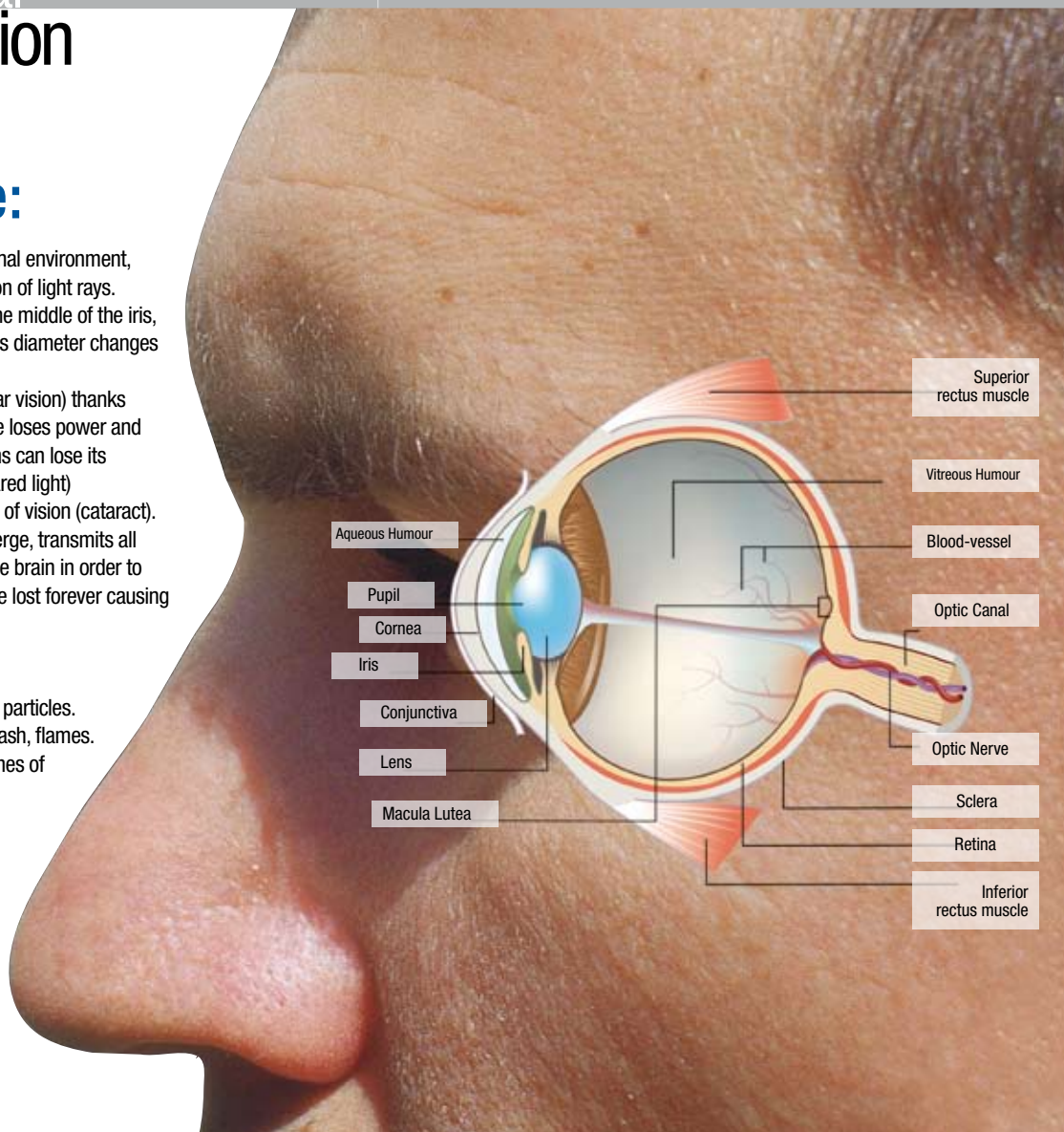
### Industrial hazards for the eyes:

- **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 world wide more than 600 workers suffer from eye injury simply because they do not wear protective eyewear.

Source: BLS



	U.V.C 100 TO 280NM	U.V.B 280 TO 315NM	U.V.A 315 TO 380NM	BLUE LIGHT 380 TO 480NM	VISIBLE LIGHT 380 TO 780NM	NEAR I.R. 780 TO 1400NM	MIDDLE I.R. 1400 TO 2000NM
<b>CORNEA</b>	CONJUNCTIVITIS PARTIAL BLINDNESS	CONJUNCTIVITIS PARTIAL BLINDNESS	CONJUNCTIVITIS PARTIAL BLINDNESS				
<b>LENS</b>		CATARACT PREMATURE AGING	CATARACT PREMATURE AGING			CATARACT	CATARACT PARTIAL BLINDNESS
<b>RETINA</b>				PARTIAL BLINDNESS PHOTORETINITIS	VISION PROBLEMS DISCONTINUOUS VISION	RETINIS PIGMENTOSA BLINDNESS	

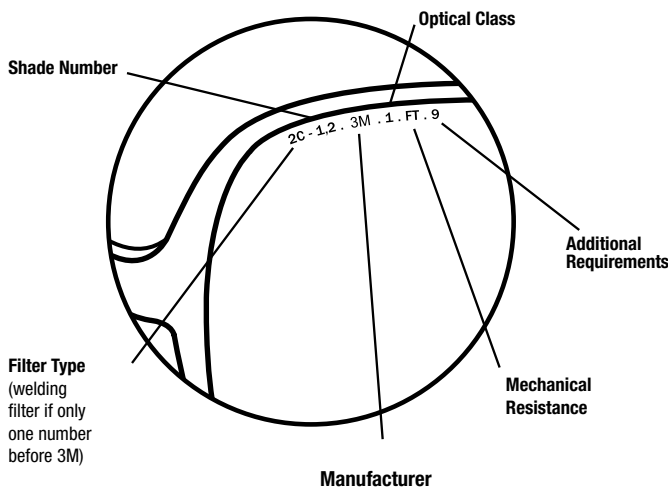
# 3M Technical Information

Protective eyewear, whether equipped with plano or prescription lenses, are PPE - Personal Protective Equipment - level 2 (criminal responsibility involved). They must be examined and approved by a certified European laboratory (e.g. INSPEC, INRS). This examination enables the performance of the equipment to be shown on the basis of the criteria provided by the EN166 standard. The symbols corresponding to the level of performance obtained are then marked on the frame and on the lens.

- EN166: General specifications (spectacle, goggle, visor and prescription spectacle)
- EN169: Welding filters
- EN170: Ultraviolet filters

- EN171: Infrared filters
- EN172: Sunglare filters for industrial use
- EN1731: Mesh visor specifications

## → LENS MARKING IDENTIFICATION



### Lens Filter Type (protection)

- 2, 2C or 3 = UV
- 4 = IR
- 5 or 6 = Sunglare
- 1, 7 to 7 = Welding filter if no shade number

### Scale Number (shade)

- 1, 2 = Clear or Amber
- 1, 7 = Orange, Minimizer or I/O
- 2, 5 = Bronze or Grey
- 3, 1 = Dark Grey, Dark Bronze or Mirror

### Manufacturer: 3M (AOS)

### Optical Class 1: Permanent wear

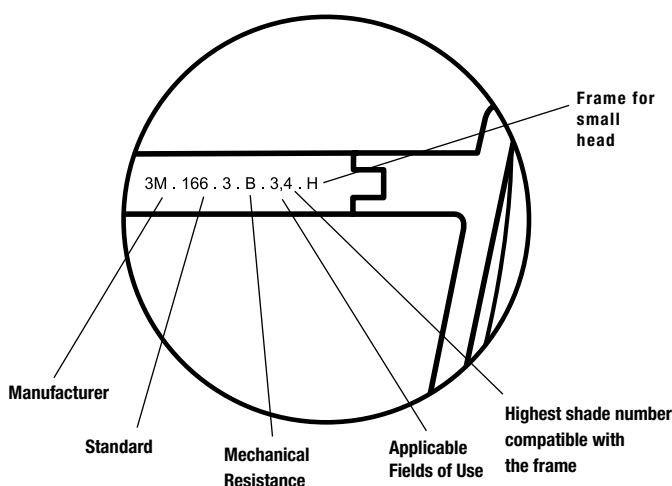
### Mechanical resistance

- Reinforced Solidity (12m/s) S
- Low Energy Impact (45m/s) F(T)
- Medium Energy Impact (120m/s) B(T)
- High Energy Impact (190m/s) A(T)
- T = Protects against impact at extreme temperature (-5°C / +55°C)

### Addition requirements

- Short Circuit Electric Arc 8
- Molten Metal Splash 9
- Surface Damage by Fine Particles K
- Resistance to Fogging N

## → FRAME MARKING IDENTIFICATION



### 3M Identification of the manufacturer (3M)

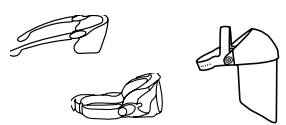
- 166 Number of the standard
- 3 Applicable fields of use
  - 3 = Liquids (droplets = goggle, splashes = visor)
  - 4 = Large dust particles (up to 5 µm) - goggle
  - 5 = Gas and fine dust (below 5 µm) - goggle
  - 8 = Short circuit electric arc - visor
  - 9 = Molten metal and hot solids - goggle or visor

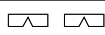
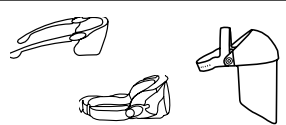
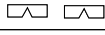
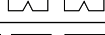

### B Symbol for mechanical resistance

- S = Reinforced solidity (CR39 - Toughened Glass)
- F(T) = impact 45m/s (Polycarbonate - Acetate)
- B(T) = impact 120m/s (Polycarbonate - Acetate)
- A(T) = impact 190m/s (Polycarbonate)
- T = impact resistance in extreme temperature (-5°C / +55°C)

- 4 Highest shade number compatible with the frame
- H Frame suitable for small head (PD = 54mm)

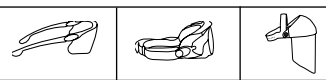


Code number - filter type		
2	UV filter	
2C	UV filter with good colour recognition	
4	Infrared filter	
5	Sunglare filter	
6	Sunglare filter with IR specification	

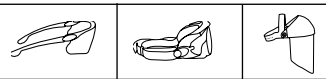
Shade Number*			
1,2		Clear or Amber	
1,7		I/O or Minimizer	
2,5		Bronze or Grey	
3,1		Dark Bronze, Dark Grey, Blue or Red Mirror	

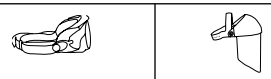
\* Welding filter if only one number for filter and shade: 1,7 = IR 1,7 3 = IR 3.0 5 = IR 5.0 7 = IR 7.0

















Optical Class			
	Tolerance of the optical power		
1	+ 0.06 dioptres	Worn all the time	All lenses are class 1
2	+ 0.12 dioptres	Worn occasionally	
3	+ 0.25 dioptres	Worn exceptionally	





Mechanical Resistance	Impact level	Maximum Speed	Lens Material			
A(T)	High Energy Impact	190 m/s	Polycarbonate			X
B(T)	Medium Energy Impact	120 m/s	Polycarbonate, Acetate		X	X
F(T)	Low Energy Impact	45 m/s	Polycarbonate, Acetate	X	X	X
S	Enhanced Solidity	12 m/s	CR39. Toughened Glass	X	X	X















T: if the impact letter (F, B or A) is followed by the letter T, then the frame protects against impact at extreme temperatures (-5°C / + 55°C)

Additional Requirements				
8	Short circuit electric arc			X
9	Molten metal and hot solid		X	X
K	Surface damage by fine particles	X	X	X
N	Resistance of the lens to fogging	X	X	X
R	Reinforced reflection in IR (>60%)	X	X	X
H	Frame suitable for small head (PD = 54mm)	X		

Applicable Fields of Use (does not include spectacles)			
3	Liquid droplets	X	
3	Liquid splashes		X
4	Large dust particles (greater than 5 µm)	X	
5	Gas and fine dust particles (up to 5 µm)	X	
8	Short circuit electric arc (minimum thickness of 1,4 mm & UV filter)		X
9	Molten metal and hot solids (shall resist to impact test)	X	X


	PRODUCT CODE	PRODUCT NAME	LENS TYPE	IMPACT PROTECTION	COATING	OPTICAL CLASS	FILTER	VLT (Visible Light Transmittance)	LENS MARKING
<b>COMFORT OVER SPECTACLES</b>									
	2800	3M™ 2800	PC Clear	FT	AS	1	UV	91%	2C-1,2 3M 1 FT
	2805	3M™ 2805	PC Shade 5	FT	AS	1	Welding (UV - IR)	<1%	4-5 3M 1 FT
	17-5118-0000P	3M™ OX1000™	PC Clear	F	-	1	UV	92%	2-1,2 . AOS . 1 . F
	17-5118-2040P	3M™ OX2000™	PC Clear	F	DX	1	UV	92%	2-1,2 . AOS . 1 . F
	17-5118-3040P	3M™ OX3000™	PC Clear	F	DX	1	UV	92%	2-1,2 . AOS . 1 . F
<b>CLASSIC OVER SPECTACLES</b>									
	41170-00000	3M™ Tourgard™	PC Clear	F	-	1	UV	92%	AOS . 1 . F
	41176-00000	3M™ Tourgard™ Small	PC Clear	F	-	1	UV	92%	AOS . 1 . F
	71448-00001C	3M™ Visitor™	PC Clear	F	-	1	UV	92%	2-1,2 . AOS . 1 . F
<b>PREMIUM SPECTACLES</b>									
	71462-00001CP	3M™ Marcus Grönholm™	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	71462-00002CP	3M™ Marcus Grönholm™	PC Bronze	FT	AS-AF	1	Solar - Blue Light	16%	5-3,1 . AOS . 1 . FT
	71462-00003CP	3M™ Marcus Grönholm™	PC Blue Mirror	FT	Mirror	1	Solar-Glare-Yellow	13%	5-3,1 . AOS . 1 . FT
	71462-00004CP	3M™ Marcus Grönholm™	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	71460-00001CP	3M™ Metaliks™	PC Clear	F	AS-AF	1	UV	92%	2-1,2 . AOS . 1 . F
	71460-00002CP	3M™ Metaliks™	PC Grey	F	AS-AF	1	Solar	13%	5-3,1 . AOS . 1 . F
	71461-00001CP	3M™ Metaliks™ Sport	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	71461-00002CP	3M™ Metaliks™ Sport	PC Amber	FT	AS-AF	1	UV - Blue light	87%	2-1,2 . AOS . 1 . FT
	71461-00003CP	3M™ Metaliks™ Sport	PC Blue Mirror	FT	Mirror	1	Solar - Glare	13%	5-3,1 . AOS . 1 . FT
	7146-00004CP	3M™ Metaliks™ Sport	PC Grey	FT	AS-AF	1	Solar	16%	5-3,1 . AOS . 1 . FT
	71502-00001CP	3M™ Fuel™	PC I/O Mirror	FT	Mirror	1	Solar - Glare	45%	5-1,7 . AOS . 1 . FT
	71502-00002CP	3M™ Fuel™	PC Blue Mirror	FT	Mirror	1	Solar - Glare	13%	5-3,1 . AOS . 1 . FT
	71502-00003CP	3M™ Fuel™	PC Red Mirror	FT	Mirror	1	Solar - Glare	17%	5-3,1 . AOS . 1 . FT
	71502-00004CP	3M™ Fuel™	PC Bronze	FT	AS-AF	1	Solar - Blue light	16%	5-3,1 . AOS . 1 . FT
	71506-00000M	3M™ Fuel™ X2	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 . 3M . 1 . FT
	71506-00001M	3M™ Fuel™ X2	PC Bronze	FT	AS-AF	1	Solar - Bluelight	12%	5-3,1 . 3M . 1 . FT
	71506-00002M	3M™ Fuel™ X2	PC Red Mirror	FT	AS-AF	1	Solar - Glare	16.5%	5-3,1 . 3M . 1 . FT
	71502-00005CP	3M™ Fuel™ Polarised	PC Polarized	FT	AS	1	Solar - Glare	17%	5-3,1 . AOS . 1 . FT
	71502-10000CP	3M™ Force-3™	PC Red Mirror	FT	Mirror	1	Solar - Glare	13%	5-3,1 . AOS . 1 . FT
		3M™ Force-3™	PC Silver Mirror	FT	Mirror	1	Solar - Glare	17%	5-3,1 . AOS . 1 . FT
		3M™ Force-3™	PC I/O Mirror	FT	Mirror	1	Solar - Glare	45%	5-2 . AOS . 1 . FT
	11380-00000P	3M™ BX	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	11381-00000P	3M™ BX	PC Grey	FT	AS-AF	1	Solar	16%	5-3,1 . AOS . 1 . FT
	11374-00000P	3M™ BX Readers	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	11375-00000P	3M™ BX Readers	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	11376-00000P	3M™ BX Readers	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	01-3021-10P	3M™ Eagle™	CR39 Clear	S	AS	1		92%	AOS . 1 . S
	01-3022-10P	3M™ Eagle™	CR39 Clear	S	AS	1		92%	AOS . 1 . S
	02-3022-01P	3M™ Eagle™	Mineral Clear	S		1		96%	AOS . 1 . S
	04-3021-20P	3M™ Eagle™	PC Clear	F	AS	1	UV	92%	2-1,2 . AOS . 1 . F . K
	04-3021-40P	3M™ Eagle™	PC Clear	F	AS-AF	1	UV	92%	2-1,2 . AOS . 1 . F . N
	04-3022-20P	3M™ Eagle™	PC Clear	F	AS	1	UV	92%	2-1,2 . AOS . 1 . F . K
	04-3022-40P	3M™ Eagle™	PC Clear	F	AS-AF	1	UV	92%	2-1,2 . AOS . 1 . F . N
	04-3150-20P	3M™ Eagle™ Near Vision	PC Clear	F	AS	1	UV	92%	2-1,2 . AOS . 1 . F
	04-3200-20P	3M™ Eagle™ Near Vision	PC Clear	F	AS	1	UV	92%	2-1,2 . AOS . 1 . F
	04-3250-20P	3M™ Eagle™ Near Vision	PC Clear	F	AS	1	UV	92%	2-1,2 . AOS . 1 . F
	27-3024-03P	3M™ Eagle™ Welding	PC shade 3	F	AS	1	Welding (UV - IR)	15%	3 . AOS . 1 . F . K
	27-3024-05P	3M™ Eagle™ Welding	PC shade 5	F	AS	1	Welding (UV - IR)	2%	5 . AOS . 1 . F . K
	27-3024-07P	3M™ Eagle™ Welding	PC shade 7	F	AS	1	Welding (UV - IR)	1%	7 . AOS . 1 . F . K
	2750	3M™ 2750	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 3M 1 FT
	2751	3M™ 2751	PC Grey	FT	AS-AF	1	Solar	18%	5-2,5 3M 1 FT
	71509-00000M	3M™ 1200E	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 . 3M . 1 . FT
	71509-00001M	3M™ 1200E	PC Grey	FT	AS-AF	1	Solar	12%	5-3,1 . 3M . 1 . FT
	11356-00000P	3M™ LED Light Vision™	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT

	PRODUCT CODE	PRODUCT NAME	LENS TYPE	IMPACT PROTECTION	COATING	OPTICAL CLASS	FILTER	VLT (Visible Light Transmittance)	LENS MARKING	
<b>COMFORT SPECTACLES</b>										
	13225-0000P	3M™ Maxim™	PC Clear	FT	DX	1	UV	92%	2C-1.2 .AOS . 1 . FT	
	13226-0000P	3M™ Maxim™	PC Bronze	FT	DX	1	Solar - Blue light	16%	5-3.1 .AOS . 1 . FT	
	13227-0000P	3M™ Maxim™	PC I/O Mirror	FT	Mirror	1	Solar - Glare	55%	5-1.7 .AOS . 1 . FT	
	13228-0000P	3M™ Maxim™	PC Amber	FT	DX	1	UV - Blue light	94%	2-1.2 .AOS . 1 . FT	
	13229-0000P	3M™ Maxim™	PC Clear	FT	DX	1	UV	92%	2C-1.2 .AOS . 1 . FT	
	13323-0000P	3M™ Maxim™	PC Shade 3	FT	DX	1	Welding (UV - IR)	15%	3 .AOS . 1 . FT	
	13324-0000P	3M™ Maxim™	PC Shade 5	FT	DX	1	Welding (UV - IR)	2%	5 .AOS . 1 . FT	
	13325-0000P	3M™ Maxim™	PC Minimizer	FT	Mirror	1	Welding (UV - IR)	50%	6-1.7 .AOS . 1 . FT	
	13296-00000	3M™ Maxim™ Ballistic	PC Clear	FT	DX	1	UV	92%	2C-1.2 .AOS . 1 . FT	
	13297-00000	3M™ Maxim™ Ballistic	PC Bronze	FT	DX	1	Solar - Blue light	16%	5-3.1 .AOS . 1 . FT	
	13298-00000	3M™ Maxim™ Ballistic	PC I/O Mirror	FT	Mirror	1	Solar - Glare	55%	5-1.7 .AOS . 1 . FT	
	13299-00000	3M™ Maxim™ Ballistic	PC Amber	FT	DX	1	UV - Blue light	94%	2-1.2 .AOS . 1 . FT	
	13326-0000P	3M™ Maxim™ Ballistic	PC Vermillion	FT	DX	1	UV - Green light	42%	2-1.4 .AOS . 1 . FT	
	13240-0000P	3M™ Maxim™ Sport	PC Clear	FT	DX	1	UV	92%	2C-1.2 .AOS . 1 . FT	
		71505-00001CP	3M™ Solus™	PC Clear	FT	AS	1	UV	92%	2C-1.2 .AOS . 1 . FT
		71505-00002CP	3M™ Solus™	PC Clear	FT	AS-AF	1	UV	92%	2C-1.2 .AOS . 1 . FT
		71505-00003CP	3M™ Solus™	PC Bronze	FT	AS-AF	1	Solar - Blue Light	16%	5-3.1 .AOS . 1 . FT
		71505-00004CP	3M™ Solus™	PC Amber	FT	AS-AF	1	UV - Blue Light	94%	2C-1.2 .AOS . 1 . FT
71505-00005CP		3M™ Solus™	PC I/O Mirror	FT	Mirror	1	Solar - Glare	55%	5-1.7 .AOS . 1 . FT	
71505-00006CP		3M™ Solus™	PC Red Mirror	FT	Mirror	1	Solar - Glare	55%	5-3.1 .AOS . 1 . FT	
71505-00007CP		3M™ Solus™	PC Clear	FT	AS	1	UV	92%	2C-1.2 .AOS . 1 . FT	
71505-00008CP		3M™ Solus™	PC Clear	FT	AS-AF	1	UV	92%	2C-1.2 .AOS . 1 . FT	
71505-00009CP		3M™ Solus™	PC Blue Mirror	FT	Mirror	1	Solar-Glare-Yellow	16%	5-3.1 .AOS . 1 . FT	
		2840	3M™ 2840	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 3M 1 FT
	2841	3M™ 2841	PC Grey	FT	AS-AF	1	Solar	19%	5-2,5 3M 1 FT	
	2842	3M™ 2842	PC Yellow	FT	AS-AF	1	UV - Blue Light	93%	2-1,2 3M 1 FT	
	2844	3M™ 2844	PC I/O Mirror	FT	Mirror	1	Solar - Glare	53%	5-1,7 3M 1 FT	
	2845	3M™ 2845	PC Shade 5	FT	AS-AF	1	Welding (UV - IR)	2%	5 3M 1 FT	
	2846	3M™ 2846	PC Orange	FT	AS-AF	1	UV - Blue light	45%	2-1,7 3M 1 FT	
		71507-00000M	3M™ Refine™ 300	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 3M 1 FT
71507-00001M		3M™ Refine™ 300	PC Bronze	FT	AS-AF	1	Solar	19%	5-2,5 3M 1 FT	
	2730	3M™ 2730	PC Clear	FT	AS-AF	1	UV	91%	2C-1,2 3M 1 FT	
	2740	3M™ 2740	PC Clear	FT	AS-AF	1	UV	91%	2C-1,2 3M 1 FT	
	2741	3M™ 2741	PC Grey	FT	AS-AF	1	Solar	34%	5-2 3M 1 FT	
	2742	3M™ 2742	PC Yellow	FT	AS-AF	1	UV - Blue Light	84%	2-1,2 3M 1 FT	
		15237-00000	3M™ Lexa	PC Clear	F	DX	1	UV	92%	2-1,2 AOS 1 F
15233-00000		3M™ Lexa	PC Clear	F	DX	1	UV	92%	2-1,2 AOS 1 F	
15297-00000		3M™ Lexa	PC-I/O	F	Mirror	1	Solar Glare	55%	5-1,7 AOS 1 F	
15236-00000		3M™ Lexa	PC Grey	F	DX	1	Solar	12%	5-3,1 AOS 1 F	
		04-1021-0140N	3M™ QX1000™	PC Clear	F	DX	1	UV	92%	2-1,2 .AOS . 1 . F
	04-1021-0246N	3M™ QX1000™	PC Amber	F	DX	1	UV - Blue light	87%	2-1,2 .AOS . 1 . F	
	04-1021-0245N	3M™ QX1000™	PC Grey	F	DX	1	Solar	16%	5-3,1 .AOS . 1 . F	
	04-1022-0140N	3M™ QX2000™	PC Clear	F	DX	1	UV	92%	2-1,2 .AOS . 1 . F	
	04-1022-0146N	3M™ QX2000™	PC Amber	F	DX	1	UV - Blue light	87%	2-1,2 .AOS . 1 . F	
	04-1022-0245N	3M™ QX2000™	PC Grey	F	DX	1	Solar	16%	5-3,1 .AOS . 1 . F	
	04-1023-0140N	3M™ QX3000™	PC Clear	F	DX	1	UV	92%	2-1,2 .AOS . 1 . F	
	04-1023-0245N	3M™ QX3000™	PC Grey	F	DX	1	Solar	16%	5-3,1 .AOS . 1 . F	
	04-1023-0246N	3M™ QX3000™	PC Amber	F	DX	1	UV - Blue light	87%	2-1,2 .AOS . 1 . F	
	14700-00000	3M™ Nassau™ Plus	PC Clear	F	DX	1	UV	92%	2-1,2 .AOS . 1 . F	
	14706-00000	3M™ Nassau™ Plus	PC Clear	F	DX	1	UV	92%	2-1,2 .AOS . 1 . F	
	14492-00000	3M™ Nassau™ Rave	PC Clear	F	DX	1	UV	92%	2-1,2 .AOS . 1 . F	
	14498-00000	3M™ Nassau™ Rave	PC shade 3	F	DX	1	Welding (UV - IR)	15%	3 .AOS . 1 . F	
	14499-00000	3M™ Nassau™ Rave	PC shade 5	F	DX	1	Welding (UV - IR)	2%	5 .AOS . 1 . F	

	PRODUCT CODE	PRODUCT NAME	LENS TYPE	IMPACT PROTECTION	COATING	OPTICAL CLASS	FILTER	VLT (Visible Light Transmittance)	LENS MARKING
<b>CLASSIC SPECTACLES</b>									
	2820	3M™ 2820	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 3M 1 FT
	2821	3M™ 2821	PC Grey	FT	AS-AF	1	Solar	19%	5-2,5 3M 1 FT
	2822	3M™ 2822	PC Yellow	FT	AS-AF	1	UV - Blue Light	93%	2-1,2 3M 1 FT
	2720	3M™ 2720	PC Clear	FT	AS-AF	1	UV	93%	2C-1,2 3M 1 FT
	2721	3M™ 2721	PC Grey	FT	AS-AF	1	Solar	18%	5-2,5 3M 1 FT
	2722	3M™ 2722	PC Yellow	FT	AS-AF	1	UV - Blue Light	93%	2-1,2 3M 1 FT
	71501-00001CP	3M™ Tora™	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	71501-00002CP	3M™ Tora™	PC Bronze	FT	AS-AF	1	Solar - Blue light	20%	5-2,5 . AOS . 1 . FT
	71501-00003CP	3M™ Tora™	PC Amber	FT	AS-AF	1	UV - Blue light	87%	2-1,2 . AOS . 1 . FT
	2810	3M™ 2810	PC Clear	FT	-	1	UV	93%	2C-1,2 3M 1 FT
	17-5117-1040	3M™ KX™	PC Clear	F	DX	1	UV	92%	2-1,2 . AOS . 1 . F . N
	17-5117-1100	3M™ KX™	PC Clear	F	-	1	UV	92%	2-1,2 . AOS . 1 . F
	71480-00010C	3M™ Elys Sport	PC Clear	F	AS	1	UV	92%	AOS 1 F
	71480-00002C	3M™ Duralite	PC Clear	F	AS	1	UV	92%	AOS 1 F
	04-0072-1040	3M™ SX	PC Clear	F	DX	1	UV	92%	2-1,2 . AOS . 1 . F
	04-0072-1045	3M™ SX	PC Grey	F	DX	1	Solar	16%	5-3,1 . AOS . 1 . F
<b>COMFORT GOGGLES</b>									
	2890	3M™ 2890	PC Clear	BT	AS-AF	1	UV	86%	2C-1,2 3M 1 K N BT
	2890A	3M™ 2890A	Acetate	FT	AF	1	UV	89%	2C-1,2 3M 1 N FT
	2890S	3M™ 2890S	PC Clear	BT	AS-AF	1	UV	86%	2C-1,2 3M 1 K N BT
	2890SA	3M™ 2890SA	Acetate	FT	AF	1	UV	89%	2C-1,2 3M 1 N FT
	16670-00000	3M™ Lexa Splash	PC Clear	B	DX	1	UV	92%	2-1,2 . AOS . 1 . B
	16671-00000	3M™ Lexa Splash	PC Clear	B	DX	1	UV	92%	2-1,2 . AOS . 1 . B
	71360-00001	3M™ Fahrenheit	PC Clear	BT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . BT
	71360-00002	3M™ Fahrenheit	PC Clear	BT	AS	1	UV	92%	2C-1,2 . AOS . 1 . BT
	71360-00005	3M™ Fahrenheit	Acetate	B	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . B.9
	71360-00004	3M™ Fahrenheit	PC Clear	BT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . BT
	71360-00007	3M™ Fahrenheit	Acetate	B	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . B.9
	71360-00003	3M™ Fahrenheit	Acetate	B	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . B.9
	15-0002-00	3M™ Flyer™	Acetate	F	AF	1		92%	AOS . 1 . F
	15-0003-00	3M™ Flyer™	PC Clear	F	AF	1		92%	AOS . 1 . F
	15-0012-00	3M™ Flyer™	Acetate	F	AF	1		92%	AOS . 1 . F
	15-0013-40	3M™ Flyer™	PC Clear	F	AF	1		92%	AOS . 1 . F
	15-0014-02	3M™ Flyer™	Propionate	F	AF	1		92%	AOS . 1 . F
	71361-00001CP	3M™ Modul-R	PC Clear	BT	DX	1	UV	92%	2C-1,2 . AOS . 1 . BT
<b>CLASSIC GOGGLES</b>									
	71359-00000	3M™ 4700	PC Clear	B	-	1		92%	AOS . 1 . B
	71347-00001C	3M™ 4800	PC Clear	B	-	1		92%	AOS . 1 . B.9
	71347-00004C	3M™ 4800	PC Clear	B	AF	1		92%	AOS . 1 . B
<b>SPECIAL GOGGLES</b>									
	71504-00002C	3M™ Maxim 2 x 2 Air Seal	PC Clear	FT	AS-AF	1	UV	92%	2C-1,2 . AOS . 1 . FT
	13330-00000P	3M™ Maxim Hybrid	PC Clear	FT	DX	1	UV - Blue light	92%	AOS . 1 . FT

# Glossary for Coatings

EXAMPLE APPLICATION	USER IN AN ABRASIVE ENVIRONMENT E.G. WORKBENCH	USER MOVES FROM HOT TO COLD OR WEARING FOR LONG DURATIONS	WHERE STATIC BUILD UP OCCURS	CHEMICAL RESISTANT	UV, SUNLIGHT AND GLARE
AS (Anti-scratch)	Yes				
AF (Anti-Fog)		Yes			
AS-AF (Anti-Scratch, anti-fog)	Yes	Yes			
DX	Yes	Yes	Yes	Yes	
Mirror	Yes				Yes



180° of Pure Vision  
0% distortion

180° of Pure Vision  
0% distortion

*The curve of the lens follows the curve of your face*



## Introducing the unique aspherical lens

### End Users Issues:

The majority of Non-Prescription Lenses are manufactured from a spherical design, resulting in the focal point of the sphere being directly in line with the pupil. Normally, light rays which reach the pupil from all directions pass at right angles through the lens without distortion. However, spherical lenses designed to cover 180° vision create numerous disadvantages.

The fact is the human head is not a sphere; the curve around the eyes is aspheric. For a spherical lens to cover 180° of angle it would have to protrude away from a person's forehead. The result would create a hazardous area allowing solid particles, dust or harmful radiation to penetrate the eyes, resulting in injury. This design also makes them uncomfortable to wear and difficult to use in conjunction with other equipment. e.g. helmets.

Manufacturers could rectify these issues by adopting a non-spherical lens and "forcing" it to follow the contours of the face. However, this practice results in unacceptable optical distortions. The common complaints of headaches and even dizziness are attributable to these distortions.

### The Optimal Solution:

The optimal solution was to develop an aspheric lens offering 100% distortion-free vision. The optical experts agreed this was a challenge! We, using Advanced Optical Engineering, took the challenge and solved it.

Using advanced computerised Ray Tracing Techniques, we scanned every micro-dot of the lens then optically corrected it. The result is the first distortion-free, optical Class 1 aspheric lens offering 180° of Pure Vision.

Designed into the sleek, superior styled Maxim eyewear series, the patented aspheric lens provides outstanding protection without the need for browguards or separate sideshields. Besides offering 180° of Pure Vision the Maxim Series has been nominated by the prestigious German Design Council for the German Design Prize 2006.

We did not construct the Maxim lens just for the challenge. We did it to provide premium protective eyewear where 180° of Pure Vision is essential. e.g. forklift trucks, construction sites ...just name it.

# Diverse range of personal protective equipment

The combined portfolio of 3M™, Peltor™ and E-A-R™ Personal Protective Equipment includes high-quality, innovative solutions to protect people at work. Here are some examples:

## Respiratory protection



## Hearing protection



## Eye protection



## Head protection



## Welding protection



## Protective coveralls



\*Photos of product examples



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