





The 3M range of eyewear gives you a variety of modern and stylish products to choose from. All safety spectacles and goggles protect the eyes from a wide range of hazards and are available with a selection of coatings, lens types and accessories.

Comfort

Many of our products come with adjustable features and soft materials at 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 (Personal Protective Equipment) is maintained. 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 requires employer and end user to conduct an appropriate selection depending on individual needs.

Why do you need to protect your eyes?

 $\ \, \text{Eye injuries, whatever the source, can result in anything from simple irritation to total blindness.} \\$

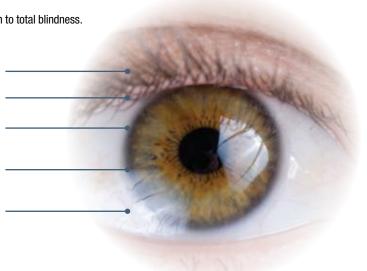
MECHANICAL HAZARDS - Examples: impact, solid particles

THERMAL HAZARDS - Examples: hot liquids splash, flame

RADIATION HAZARDS - Examples: ultraviolet, infrared, visible light, laser

ELECTRICAL HAZARDS - Examples: direct contact, short-circuit electric arc

CHEMICAL OR BIOLOGICAL HAZARDS - Examples: acids, solvents, alkalis, splash, infected blood



Guide to choosing eyewear by hazard or application

This guide is an outline only and should not be used as the only means of selecting eye protection.

Product by hazard

Risk	Spectacles	Goggles
Optical radiation (e.g. UV, IR) See Lens Colour Table	✓	✓
High speed particle at: Low energy (F) Medium energy (B)	√	√ √
Liquid droplets		/
Large dust particles		
Gas and fine dust particles		✓
Molten metal and hot solids		✓
High speed particle at extreme temperature	✓	✓

Choice of product by application

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Application	Spectacles	Goggles							
Vistors	✓								
Grinding		✓							
Turning	✓	✓							
Assembling	✓	✓							
Cold Metal Working	✓	✓							
Hot Metal Working		✓ (T)							
Painting		✓							
Laboratory - Acids		✓							
Laboratory - Dusts	✓	✓							
Laboratory - Hospital	✓	X							
Outdoor	✓								
Chemical splash		✓							
Chemical gas		✓ (Non vented)							

Accessories for 3M[™] Eyewear



Black microfibre lens cleaning cloth



Dispenser for 500x lens cleaning tissues



Adjustable nylon headband for Maxim™ and Maxim™ Ballistic



Universal Spectacle cord case (pack of 6)



Large rigid spec case with flap and belt loop



Rigid plastic case with interior baize lining

	3M™ COMFORT OVER SPECTACLES				LASSIC ECTACLES				
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PRODUCT DESCRIPTION	2800	OX1000	0X2000	OX3000	TourGuard™	Visitor™	Marcus Grönholm™	Metaliks™	Fuel™
TECHNICAL FEATURES									
Lens Type (PC = Polycarbonate)	PC	PC	PC	PC	PC	PC	PC	PC	PC
Other lens materials available in range									
Impact resistant	FT	F	F	F	F	F	FT	F	FT
Coating for clear lens	AS	=	DX	DX	AS		AS-AF	AS-AF	AS-AF
Other coating available within series							Mirror		
Optical class	1	1	1	1	1	1	1	1	1
Filter	UV	UV	UV	UV	UV	UV	UV	UV	Solar-Glare
Visible Light Transmission	91%	92%	92%	92%	92%	92%	92%	92%	45%
Lens marking	2C-1.2 3M 1 FT	2-1.2.A0S.1.F	2-1.2.A0S.1.F	2-1.2.A0S.1.F	A0S.1.F	2-1.2.A0S.1.F	2C-1.2.A0S.1.FT	2-1.2.A0S.1.F	5-1.7.A0S.1.FT
PRODUCT FEATURES									
Adjustable temple length	Yes		Yes						
Temple inclination	Yes								
Formable or rotating temple tips			Yes				Yes	Yes	
Soft temple tips	Yes			Yes			Yes	Yes	Yes
Flat temples for extra comfort under helmets							Yes	Yes	
Soft, comfortable, ventilated nose bridge							Yes	Yes	Yes
Wrap around glasses for superior view							Yes	Yes	Yes
Broad and adjustable head bands for goggles or strap for glasses									
Browguard or micro fibre pouch									Micro Fibre Pouch
Temple colours available for range	Blue arms	Black arms	Blue arms	Blue arms	Clear	Clear	Black arms	Grey arms	Grey, Platinum, Titanium, Brown, Black arms
Headband material Special features	Soft temple and adjustable tips	Lightweight with no metal parts	Comfortable and adjustable temple	Flat temples make it comfortable with Peltor™ Ear Muff	Also comes in small size for a chic look	Lightweight for extra comfort	Hypo-allergic metal frames and special large size for trendy look. Also available in large sizes.	Polished metal frame for stylish look	Extreme heat and torsion resistance, nose ventilation system and triple flex lens coating
LENS OPTION									
Clear lens	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Solar lens							Bronze, Blue mirror	Grey	Bronze, Indoor/Outdoor, Red mirror, Blue mirror, Polarised
High contrast lens									
Green/Welding lens	Shade 5								



Semi-rigid case with belt loop and snap clasp



Soft microfibre pouch with snap clasp for goggle (15x23cm), suitable to clean the lens.



3M[™] Maxim[™] Ballistic Utility Pack



103 Spectacles Pouch



272 Premium Neck Cord

			3M™	PREMIUM SPECTAC	LES			
20	60	89	00	60	00		8	•
Metaliks™ Sport	Force-3™	BX™	BX™ Readers	Eagle™	Eagle™ Near Vision	Eagle™Welding	2750	LED Light Vision™
PC	PC	PC	PC	CR39 Mineral	PC	PC	PC	PC
FT	FT	FT	FT	S	F	F	FT	FT
AS-AF	Mirror	AS-AF	AS-AF	AS	AS	AS	AS-AF	AS-AF
Mirror				DX				
1	1	1	1	1	1	А	1	1
UV	UV	UV	UV		UV		UV	UV
92%	45%	92%	92%	92%	92%	54% - 99%	93%	92%
2C-1.2 AOS.1.F	5-3.1.A0S.1.FT	2C-1.2.A0S.1.FT	2C-1.2.AOS.1.FT	A0S.1.S	2C-1.2.AOS.1.F	1.7.A0S.1.F.K	2C-1.2 3M 1 FT	2C-1.2.AOS.1.FT
		Yes	Yes	Yes	Yes	Yes	Yes	
		Yes	Yes	Yes	Yes	Yes	Yes	
Yes				Yes	Yes	Yes		
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes								
Yes	Yes						Yes	Yes
Yes	Yes	Yes	Yes				Yes	
	Micro Fibre Pouch							Micro Fibre Pouch
Black arms	Grey arms	Black arms	Black arms	Blue arms	Black arms	Black arms	Black arms	Black/Grey arms
Polished metal frame for stylish look	Stylish and comfortable		Comes in 3 Bi-focal lenses, 1.5, 2 and 2.5 magnification	Versatile spectacles with clip-ones for all activities	Excellent for close work with a standard pupil distance 64mm	Comfortable for welders assistant	Stylish and versatile	Light in dark places e.g. plumbing

Clear		Clear	Clear	Clear	Clear	Clear	Clear
Grey, Blue mirror	Red mirror, Silver mirror, Indoor/Outdoor	Grey				Grey	

Amber

	3M™COMFORT SPECTACLES					3M™ (3M™ CLASSIC SPECTACLES		
	K	T	50		\leftrightarrow				
PRODUCT DESCRIPTION	Maxim™	Maxim™ Ballistic™	Solus™	2840	QX2000™	Nassau™ Plus	2820	2720	Tora™
TECHNICAL FEATURES									
Lens Type (PC = Polycarbonate) Other lens materials available in range	PC	PC	PC	PC	PC	PC	PC	PC	PC
Impact resistant	FT	FT	FT	FT	F	F	FT	FT	FT
Coating for clear lens	DX	DX	AS	AS-AF	DX	DX	AS-AF	AS-AF	AS-AF
Other coating available within series	Mirror	Mirror	AS-AF, Mirror	Mirror					
Optical class	1	1	1	1	1	1	1	1	1
Filter	UV	UV	UV	UV	UV	UV	UV	UV	UV
Visible Light Transmission	92%	92%	92%	93%	92%	92%	93%	93%	92%
Lens marking	2C-1.2.A0S.1.FT	2C-1.2.AOS.1.FT	2C-1.2.A0S.1.FT	2C-1.2 3M 1 FT	2-1.2.A0S.1.F	2-1.2.A0S.1.F	2C-1.2 3M 1 FT	3-1.2 3M 1 FT	2C-1.2 AOS.1.FT
PRODUCT FEATURES									
Adjustable temple length	Yes			Yes		Yes			
Temple inclination	Yes	Yes		Yes			Yes		
Formable or rotating temple tips					Yes				
Soft temple tips			Yes	Yes	Yes	Yes	Yes		
Flat temples for extra comfort under helmets		Yes						Yes	
Soft, comfortable, ventilated nose bridge	Yes	Yes							
Wrap around glasses for superior view			Yes		Yes		Yes	Yes	Yes
Broad and adjustable head bands for goggles or strap for glasses									Yes
Browguard or micro fibre pouch	Browguard	Browguard	Micro Fibre Pouch	Browguard		Browguard			
Temple colours available for range	Black arms	Black arms	Black, orange and silver blue arms	Grey arms	Blue arms	Blue or Black arms	Black/Grey arms	Blue arms	Clear arms
Headband material									
Special features	180 degree vision for picture perfect clarity and include welding lens with the range	180 degree vision, exceed Military Vo test regimen for high velocity impact (198m/s) Ballistic utility pack, ballistic utility	Lightweight, fashion, field of vision brow guard	Rimless style	Reversible nose piece	Style and versatility in one. Flexible for a range of applications.	Lightweight, style and comfort in one design. Great field of vision.	Lightweight, great look in sleek design.	Lightweight, stylish and with cord on all
LENC OPTION		shooting kit							
LENS OPTION Clear lens	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Solar lens	Bronze, Indoor/Outdoor	Bronze, Indoor/Outdoor	Bronze, Indoor/Outdoor, Red and Blue Mirror	Indoor/Outdoor mirror Smoke		oleai	Grey	Grey	Bronze
High contrast lens	Amber	Amber, Vermillion	Amber	Yellow			Yellow	Yellow	Amber
Green/Welding Lens	Shades 3, 5 and Minimiser	,		Shade 5					



		3M [™] COMFO	RT GOGGLES		3M™ CLASSIC GOGGLES	3M™ SPECIAL GOGGLES		
					GUGGLES			
	5					60	D	
PRODUCT DESCRIPTION	2890	Farenheit™	Flyer™	Modul-R	4700	Maxim 2x2	Maxim Hybrid	
TECHNICAL FEATURES								
Lens Type (PC = Polycarbonate)	PC	PC	PC	PC	PC	PC	PC	
Other lens materials available in range	Acetate	Acetate	Acetate, Propionate					
Impact resistant	ВТ	В	F	BT	В	FT	FT	
Coating for clear lens	AS-AF	AS-AF	AF	DX		AS-AF	DX	
Other coating available within series	AF	AS, DX						
Optical class	1	1	1	1	1	1	1	
Filter	UV	UV		UV		UV		
VLT	86%	92%	92%	92%	92%	92%	92%	
Lens marking	2C-1.2 3M 1 K N BT	2C-1.2 AOS.1.BT	AOS.1.F	2C-1.2 AOS.1.B	AOS.1.B	2C-1.2 AOS.1.FT	AOS.1.FT	
PRODUCT FEATURES								
Resistance against liquid drops	Yes (2890, 2890A and 2890S)	Yes	Yes	Yes	Yes	Yes	Yes	
Resistance against gas and dust	Yes (2890, 2890SA and 2890S)	Yes (non vented version)						
Resistance against molten metal	Yes (2890S)							
Comes with microfibre pouch		Yes						
Headband material	Polyester	Nylon		Nylon				
Special features	2890S is non vented	Vented, unvented, with and without foam, one made for helmet	Comes with and without foam	Thermoplastic material for comfort and half visor		Easy to switch from a headband to glasses to ensure the right protection every time		
LENS OPTION								
Clear lens	Clear	Clear	Clear	Clear	Clear	Clear	Clear	

Impact Resistance Table

Mechanical Resistance	Impact Level	Maximum Speed	Lens Material
B or B(T)	Medium Energy Impact	120m/s	Polycarbonate, Acetate
F or F(T)	Low Energy Impact	45m/s	Polycarbonate, Acetate
S	Enhanced Solidity	12m/s	CR39 Toughened Glass

Coating Options Table

3 - 1					
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

Lens Colour Table

Classification	Lens Type		Filter code	Protection	Benefits	Typical applications	Markets
Clear Lens	Clear	60	2C-1.2 or 3-1.2	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	00	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)	60	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	S	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	60	5-2.5 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	Polarised	60	N/A	Impact protection (low energy), UV (A,B,C), glare	Horizontal 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	9	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	Yellow	S	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 and shooting
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
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	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	H	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



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