



Eye protection

Eye protection



Introduction

Eye protection is a very personal product to all workers. It not only has to offer the highest possible protection but also maximum comfort with perfect fit. North has taken a lead in the market with models such as; The Edge & Tornado. North eyewear is state-of-the-art in design and performance, and included in this catalogue is a complete line of safety spectacles, RX safety spectacles, goggles and accessories. The complete product range satisfies all industries for most applications where protection is required.

EN Standards



- EN166 Specifications for personal protective eyewear
- EN167 Standard for optical test methods
- EN168 Standard for non-optical test methods

by application types

- EN169 Standard for welding filters
- EN170 Standard for ultraviolet filters
- EN172 Standard for solar protection filters for industrial use

Lens coating & material descriptions



- anti-scratch
- anti-UV
- anti-static



- anti-scratch
- anti-UV
- anti-static
- anti-fog



- anti-scratch
- anti-UV
- anti-static
- anti-fog

All of North's protective eyewear is treated with a scratch resistant coating or North's exclusive 4A coating. The Anti-Fog treatment is applied on both sides of the lens.

- Scratch resistant coating
- Permanently bonded to the lens
- Very durable
- Extends lens life
- Excellent optical quality
- Resistant to a wide range of chemicals

4A+ coating is an unique lens treatment that will meet the additional EN166 standard K= scratch resistant & N= Anti-Fog features on both sides of the safety lens.

Marking frame & lens

- S** Increased robustness (22 mm steel ball weighing 43 gr. launched at a speed of 5.1 m/s)
- F** Resistance to low energy impact (6 mm steel ball launched at a speed not exceeding 45 m/s)
- B** Resistance to medium energy impact (6 mm steel ball launched at a speed not exceeding 120 m/s)
- A** Resistance to high energy impact (6 mm steel ball launched at a speed not exceeding 190 m/s)

Marking frame

- T** Protection against impact at extreme temperatures
- H** Frame is designed to fit a small head

Marking lens

- 2** UV-light filter
- 2C** UV-light filter with good colour recognition
- 5** Solar protection filter

Additional markings

- 3** Protection against drops and splashes
- 4** Protection against dust particles greater than 5 microns
- 5** Protection against dust particles less than 5 microns
- 8** Protection against electric arc discharges caused by short-circuiting
- 9** Protection against molten metal and hot solids
- K** Symbol for resistance to surface damage by particles
- N** Symbol for resistance to fogging

The marking must be visible on each component to comply with the standard EN 166.

Lens selection chart



Clear

For indoor and outdoor applications where impact protection is required.



Amber

For low light applications where contrast enhancement is required



Smoke

Blue mirror smoke

Gold mirror smoke

For outdoor applications where sunlight and glare cause eye strain and fatigue



In/outdoor

Ideal for applications where work situations change from indoor to outdoor and visa versa and looking into artificial light at sealings like forklift truck drivers.

Material Properties

CR-39

- Polymer + Anti-Scratch
- Increased robustness: Class S
- Suitable for grinding, drilling and milling work
- Chemical resistance

PC

- Polycarbonate
- Medium energy impact: Class B
- Extremely suitable for heavy grinding, drilling and milling work
- Limited chemical resistance

CP

- Cellulose propionate
- Low energy impact: Class F
- Extremely suitable for work with chemicals, light grinding, drilling and milling work
- High chemical resistance

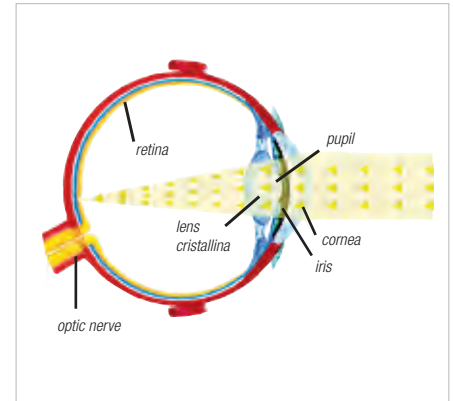
PETG

- Polyethylene Terephthalate Glycol
- Low energy impact: Class F
- Suitable for work with chemicals, light grinding, drilling and milling work
- Recyclable product

Toughened Glass

- Hardened mineral glass
- Increased robustness: Class S
- Suitable for grinding, drilling and milling work
- High chemical resistance

Effects on the eye related to the risks



• Mechanical

hazards caused by impact of dust, metal or sand particles.

Consequences:

Lesion or perforation of the Cornea, laceration of the Iris, opacity/ cloudiness of the lens.

• Chemical

risk caused by hazardous liquid substances like: solvents, spray, lime, cement, mortar.

Consequences:

burns or blurs of the Cornea (Conjunctivitis), viral infections.

• High temperature

hazards caused by molten metals, flames or liquid at high temperatures.

Consequences:

burn or perforation of the Cornea, loss of the eye.

• Electrical

hazards caused by direct contact or electrical arc by short circuit.

Consequences:

lesion of the Cornea, Retina or Lens, Burn of the Retina.

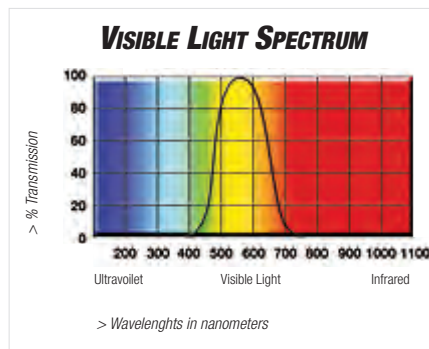
• Bright radiations

hazards caused by Laser, Infrared, UV or Visible light.

Consequences:

lesion or burn of the Retina blurred Cornea.

Spectrum



Extreme Style

Tactile T2400



- Soft Nose Pad
- Soft Touch Straight Temples
- 8-base curved PC lens

Lens	Coating	Black frame	Marking
Clear	3A	908730	EN166 1F CE
Blue Mirror Smoke	3A	908731	5-3.1 EN166 1F CE
In/Outdoor	3A	908736	2-1.7 EN166 1F CE

Slimline T1300



- Soft Touch Straight Temples
- 8-base curved PC lens

Lens	Coating	Art. nr.	Marking
Clear	4A	906700	2C-1.2 EN166 1FT CE
Smoke	4A	906701	2C-3 / 5-3.1 EN166 1FT CE
Amber	4A	906702	2C-1.2 EN166 1FT CE
In/Outdoor	4A	906706	2C-1.7 EN166 1FT CE

Velocity T6100



- Curved Temples
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Marking
Clear	4A	906300	2-1,2 EN166 1F CE
Smoke	4A	906301	5-2,5 NN166 1F CE
Amber	4A	906302	2-1,2 EN166 1F CE
IR3.0	3A	906307	3 EN166 1F CE
IR5.0	3A	906308	5 EN166 1F CE

Extreme Style

Tornado T5700



- Lens Pivoting System
- Curved Extendable Temples
- 6-base curved PC lens

Lens	Coating	Black frame	Blue frame	Marking
Clear	4A	908100		2C-1.2 N166 1FT CE
Blue Mirror Smoke	3A		908105	2C-3 / 5-3.1 EN166 1FT CE
In/Outdoor	3A	908136		2C-1.7 EN166 1FT CE
Smoke	4A	908131		5-3.1 EN166 1F CE

Tornado T5800



- Lens Pivoting System
- Straight Temples
- 6-base curved PC lens

Lens	Coating	Black frame	Marking
Gold Mirror Smoke	3A	908201	2C-3 / 5-3.1 EN166 1FT CE
Amber	4A	908202	2C-1.2 EN166 1FT CE

Attractive Style

Lightning Metal



- Soft-touch adjustable temples for extra comfort
- Flexi-fit non slip nose piece
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Silver frame	Marking
Clear	4A	908500	2C-1.2 EN166 1F CE
Smoke	4A	908501	2C-3 / 5-3.1 EN166 1F CE
Amber	4A	908502	2C-1.2 EN166 1F CE
Replacement nose piece		65RB	
RX insert		202600.0.4822	

Lightning HTA



- Extensible curved temples
- Flexi-fit non slip nose piece
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Repl. Lens	Marking
Clear	4A	908510	606190	2C-1.2 EN166 1F CE
Smoke	4A	908511	606191	2C-3 / 5-3.1 EN166 1F CE
Amber	4A	908512	606192	2C-1.2 EN166 1F CE
Replacement nose piece		65RB		
RX insert		202600.0.4822		

Attractive Style

Lightning T6500



- Bowed auto adjustable temples
- Flexi-fit non slip nose piece
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Repl. Lens	Marking
Clear	4A	906100	606190	2C-1.2 EN166 1F CE
Smoke	4A	906101	606191	2C-3 / 5-3.1 EN166 1F CE
Amber	4A	906102	606192	2-1.2 EN166 1F CE
In/outdoor	3A	906106	606196	2-1.7 EN166 1F CE
Replacement nose piece		65RB		
RX insert		202600.0.4822		

Lightning Plus



- Soft Touch Straight Temples
- Flexi-fit non slip nose piece
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Blue frame	Silver frame	Repl. Lens	Marking
Clear	4A	906200	906210	906230	606190	2C-1.2 EN166 1F CE
Smoke	4A	906201		906231	606191	2C-3 / 5-3.1 EN166 1F CE
Amber	4A	906202			606192	2C-1.2 EN166 1F CE
In/outdoor	3A	906206			606196	2C-1.7 EN166 1F CE
Replacement nose piece		65RB				
RX insert		202600.0.4822				

Attractive Style

N-Vision T5655



- Extensible Curved & Straight
Temples enclosed
- Flexi-fit non slip nose piece
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Blue frame	Grey frame	Repl. Lens	Marking
Clear	4A	906600	906610	906640	606790	2-1.2 EN166 1F CE
Smoke	4A	906601			606791	5-3.1 EN166 1F CE
Amber	4A	906602			606792	2-1.2 EN166 1F CE
In/outdoor	3A	906606			493HRL	2-1.2 EN166 1F CE
Replacement nose piece		65RB				
RX-Insert		202600.0.4822				

The Edge T5600



- Extensible Curved & Straight
Temples enclosed
- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Blue frame	Grey frame	Repl. Lens	Marking
Clear	4A	908320	908310	908300	608390	EN166 1F CE
Smoke	4A	908321	908311	908301	608391	5-3.1 EN166 1F CE
Amber	4A	908324		908304	608394	2-1.2 EN166 1F CE

High Performance

VX-7



- Lens Pivote System
- Temples and strap are included
- 6-base curved PC lens
- Soft pouch

Lens	Coating	Blue frame	Grey frame	Repl. lens	Marking
Clear	4A	908610	908640	608690	2-1,2 EN166 1FT CE
Blue mirror smoke	4A	90861B		60869B	5-3,1 EN166 1FT CE
Gold mirror smoke	4A		908649	608699	5-2,5 EN166 1FT CE
Amber	4A		908642	608692	2-1,2 EN166 1FT CE
In/outdoor	3A		90864A	60869A	2-1,7 EN166 1FT CE
IR3.0	3A		908647	608697	3 EN166 1FT CE
IR5.0	3A		908648	608698	5 EN166 1FT CE
RX Insert				208600.0.4822	

Flash T8800



- Lens Pivote System
- Curved Extensable Temples
- Twin 6-base curved PC lens
- Integrated vented temple side shields
- Dust cover
- Two sizes

Lens	coating	Crystal frame	Green frame	Marking
Clear	4A	T88005 (58MM)		2C-1,2 EN166 1F CE
Clear	4A	T87005 (54MM)		2C-1,2 EN166 1F H CE
Green IR3.0	3A		T88015G3.0	3 EN166 1F CE
Green IR5.0	3A		T88015G5.0	5 EN166 1F CE

Classic Style

Spacer T160055



- Extensible curved temples
- 6-base curved PC lens
- Integrated side shields

Lens	Coating	Black temple	Marking
Clear	3A	907501	EN166 1F CE

SN



- 8-base curved PC lens
- Integrated side shields

Lens	Coating	Black frame	Repl. Lens	Marking
Green	3A	908005	607005	EN166 1F CE
Clear	3A	907002		EN166 1 F CE

Knight T3500



- Twin 6-base curved PC lens
- Temple side shields

Lens	Coating	Black frame	Marking
Clear	3A	907900	EN166 1F CE

Classic Style

Illusion



- 6-base curved PC lens
- Integrated side shields

Lens	Coating	Black temple	Marking
Clear	3A	906400	EN166 1F CE
Smoke	3A	906401	2-1.2 EN166 1F CE
Amber	3A	906402	5-3.1 EN166 1F CE

Visitor 90S



- 6-base curved PC lens
- Integrated side shields

Lens	Coating	Transparent frame	Marking
Clear	3A	909110	EN166 1F CE

OG T1100



The "over the glass" spectacle.

- 6-base curved PC lens
- Integrated side shields
- Fits over protective and prescription eyewear

Lens	Coating	Transparent frame	Marking
Clear	3A	906500	EN166 1F CE

Flexy Line goggles

Novad



- New design soft frame
- 4-base curved PC lens
- Fits over protective and prescription eyewear
- No ventilation valves

Lens	Coating	Frame	Marking frame	Marking lens
Clear PC	3A	906800	EN166 3 4 5 9 BT CE	EN166 1BT 9 CE

UV 5000



- Large goggle
- Fits over protective or prescription eyewear
- Indirect ventilation

Lens	Transp. frame	Marking Frame	Marking Lens
Clear PC	908082	EN166 3 4 F CE	EN166 1F CE

Amigo



- Flip up welding goggle
- Soft vinyl frame
- 50mm Xantos 5

Art. nr.	Lens	Marking Frame	Marking Lens
805403.Z	Clear PC	EN166 F CE	EN166 1F CE
805425.Z	Xantos 5	EN175 F CE	5 EN166 1S CE

Flexy Line goggles

Novent



- Large goggle
- Fits over protective or prescription eyewear
- Indirect ventilation

Lens	Coating	Frame	Repl. lens	Marking frame	Marking lens
Clear PETG	3A	906800	805101	EN166 3 4 F CE	EN166 1F CE

Flexy serie



- Soft frame
- Fits over protective and prescription eyewear

Type	Lens	Coating	Ventilation	Frame	Repl. lens	Marking Frame	Marking Lens
Flexonomy	PETG	3A	4 valves	805151	805101	EN166 3 4 F CE	EN166 1F CE
Flexonomy	CP	4A	4 valves	805152	805102	EN166 3 4 F CE	EN166 1F CE
Flexacid	CP	4A	no neoprene strap	805171	805102	EN166 3 4 F CE	EN166 1F CE
Flexy	PC	3A	6 valves	805101	805101	EN166 3 4 F CE	EN166 1F CE
Flexy	CP	4A	6 valves	805102	805102	EN166 3 4 F CE	EN166 1F CE

Flexy 6000



- 4-base curved PC lens for maximum panoramic & peripheral field of vision
- Soft frame
- Fits over protective and prescription eyewear
- Indirect ventilation

Lens	Coating	Frame	Marking frame	Marking lens
Clear PC	3A	806004	EN166 3 9 B CE	EN166 1B 9 CE
Clear PC	4A	806005	EN166 3 9 B CE	EN166 1B 9 CE

Prescription Eyewear

Beta



Timeless design safety spectacle.

- Frame size 53-20
- Colours: Chrome, Gold-Demi-Amber

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Panto



Trendy metal safety frame.

- Frame sizes: 45-20, 50-20
- Colours: Silver, Gold-Demi-Amber

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Retro



Traditional metal safety spectacle that offers a perfect fit.

- Frame size: 48-22
- Colours: Silver, Gold, Antique, Gold-Demi-Amber

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Kappa



Modern lightweight safety spectacle, made of non conductive plastic.

- Frame size: 50-22
- Colours: Red, Blue, Black

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Prescription Eyewear

AirFrame



Lightweight is the key element of this pure Titanium innovative "Frame-Less" concept safety spectacle.

- High flexible temples and nosebridge
- Frame sizes: 49-19, 51-19
- Colours: Silver, Black
- Side shields detachable

Lens	Lens marking
CR-39+	EN166 1S CE

Tango



Stylish Monel RX safety frame.

- Spring hinge temples
- Equipped with Polarized magnetic clip. Takes out glare of reflecting surfaces like roads and water.
- Frame sizes 48-20, 51-20
- Colours: Silver, Blue, Gun metal

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Delta



Stylish office look frame with aluminium temples.

- Soft-touch pvc temple-ends
- Fixed side shields
- Frame sizes 49-19, 51-19
- Colour: Gun Metal

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Oval



North's famous frame was the first Titanium and fully hypoallergenic frame on the market.

- Frame sizes: 46-19, 49-19
- Colours: Brushed Silver, Antique, Gold-Demi-Amber

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Prescription Eyewear

Luctor



Aviator style metal safety spectacle.

- Titanium flex bridge
- Frame Sizes: 52-18, 54-18
- Colours: Chrome, Gold, Antique, Gold-Demi-Amber

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Vega



Classic style metal safety frame.

- Robust design
- Integrated adjustable nose bridge
- Fixed sides shields
- Frame size 52-18
- Colour: Chrome

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Alpha



Classic style safety frame made of non conductive plastic.

- Robust design
- Frame size 53-20
- Colour: Havana

Lens	Lens marking
CR-39 + Anti Scratch	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

RX-inserts



This unique accessory will transform your protective eyewear into a state-of-the-art prescription glasses, providing a clear vision. Available for all AdapTec, N-Vision, Lightning and VX-7 spectacles.

RX12 FFM-TT - is an Rx-insert specially designed with thin sports temples to use in combination with a Full Face Mask.



Accessories

Wrap case



- Black vinyl hard case
- Belt loop
- Velcro closure
- Fits all RX and duo lens frames

Art. nr.
204518

Sports mode case II



- Black hard shell case
- Zipper lock
- Fits "Extreme" and "Attractive" frames

Art. nr.
204512

Slip in case



- Black vinyl soft case
- Fits all RX and duo lens frames

Art. nr.
204504

Soft pouch



- Black Micro fibre soft pouch
- Fits all style frames

Art. nr.
204517

Tube case



- Soft shell tube lens protector
- Fits all style frames

Art. nr.
204513

Spectacle cords



204520



204522

- Black nylon
- Fits all style frames

Art. nr.	Description
204522	PVC loops
204520	Slide over temple SS32

Accessories

Clip Ons



- Flip-up clip for RX-frames

Art. nr.	Description
204540	Brown polarized
204541	Grey polarized
204524	Clear PC 3A
204525	Green 3 PC 3A
204527	Green 5 PC 3A

Emergency eye wash stations



Art. nr.	Description
939402.1	Eye wash bottle 500ml
939402.2	Blue wall mounting clip
938407	Wall clip single
939408	Wall clip triple
939410.1	Wall clip metal single
939445	Eye wash station for tap mounting

Lens cleaning



909900



10204

- Non alcohol based cleaning fluid

Art. nr.	Description
909900	Lens cleaning station
10204	Fog-Ex Lens cleaner
T11025T	Fog-Ex lens cleaning tissues
204510	Micro fibre cleaning cloth

Displays & Promo kits

804577



908004



Art. nr.	Description
804577	Presentation & promotion kit
204515	Empty kit, EVA material
908004	4 spectacles, Translucent blue
908003	6 spectacles, Translucent blue

Icons used

General



Material



Weight



Customizable



3A coating



4A coating



4A+ coating

Eye protection



Lollypop packaging



RX Insert



Replaceable lens



Pantoscopic angling

Hearing protection



SNR Value

Respiratory protection



Adjustable fit



Dust filter



Gas filter

Hand protection



EN 388



EN374.2003



EN374.2003



EN374.2003



EN407



EN511



EN421



EN421



Coating



Packaging



EN420 - Consult the instructions for use

Fall protection



Servicable



Positioning



Ladder climbing



Rescue



Descent



Fall arrest



Confined spaces



Construction working



Extended D-ring



Work restraint



Scaffolding work