

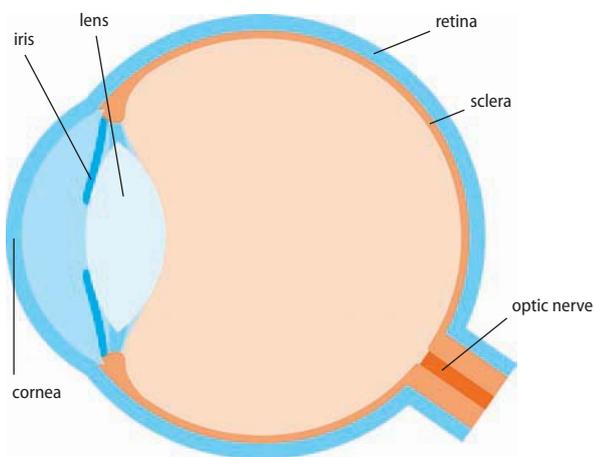
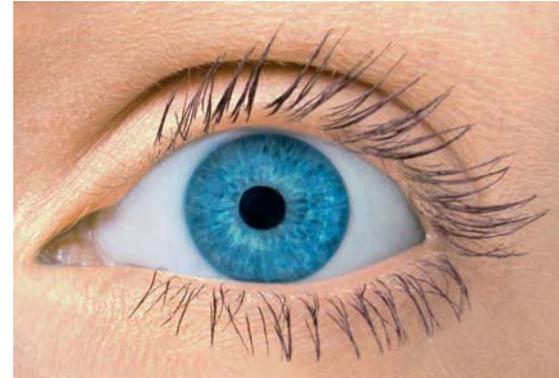
# MSA Protective Eyewear



## A sensitive organ we need to protect

“At a glance” our eyes capture very quickly all kinds of information. They are essential for many tasks like reading or driving and can improve the quality of our lives.

In countless working areas there are hazards that can cause severe damage to human vision within a split-second. Possible consequences of such an accident range from a simple temporary irritation up to total loss of sight. Therefore, in European labour legislation and across virtually all industries visual protection has become a major concern.



## Risk awareness – things to consider

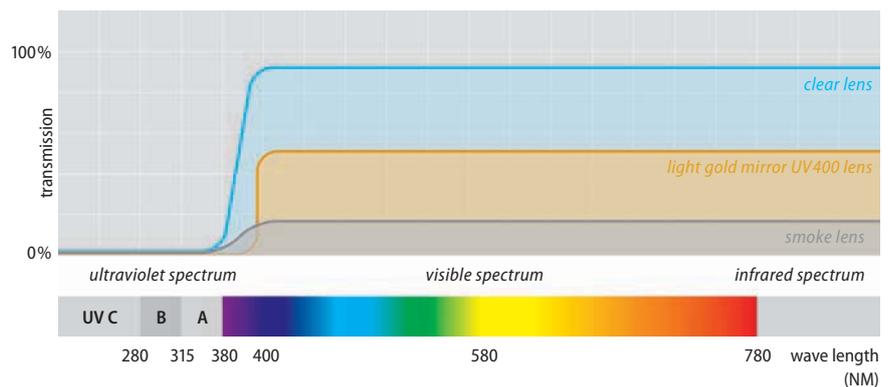
Most injuries are caused by exposure to mechanical (e.g. particles and metal fragments) or chemical hazards, to harmful radiation or a combination of these and other hazards. Anyone working in or passing through such areas that pose eye hazards should wear appropriate protective eyewear at such times.

The vast majority of eye injuries are preventable if appropriate eyewear is available and worn consistently. Protective eyewear that is ergonomic, comfortable and adapts well to the individual style and preferences should be worn.

## Invisible risks – radiation

All MSA lenses fully absorb UV radiation, e.g. by sunlight, which even at low level exposure over a long period can cause chronic damage to the cornea and centre of the eye.

## Light spectrum/lens shades



## Some selection criteria

In addition to national and/or local standards, a proper workplace analysis needs to consider some of the following factors:

- type of hazards at the workplace
- frequency of use at the workplace
- influence by/on other workplaces
- required colour recognition
- optical capacity of worker
- use of other PPE (compatibility), like e.g. hard hats, filtering facepieces, half masks, ear muffs

## A comprehensive range of eyewear

For decades MSA has offered a comprehensive range of high quality safety spectacles and goggles. MSA eyewear makes you feel great, combining reliable function with outstanding comfort and the latest fashionable styles.

	Features	Benefits
All round protection	High impact resistant lenses and frames	Meeting and exceeding EN 166
	Soft, non-slipping nose bridges and temple ends (spectacles) or headbands (goggles)	Safe fit on the face
	Snug, gap-free fit, adapting to shape of wearer's face	Feeling of protection
	Variety of designs, coatings and spectacle lens tinting	Adaptation to individual application needs
	Practical cleaning solutions and spectacle storage cases	Accessories ensure availability
High wearer acceptability	Lightweight designs for continuous use	Comfortable
	Fashionable and functional designs	Attractive
Excellent price-performance ratio	Full range (covering different levels of comfort and protection)	Product offering adapted to needs and preferences

## Key to product selection

Be it for occasional or everyday use, the MSA eyewear range offers affordable solutions at three performance levels, made to suit various needs:

	Best safety and basic comfort features at the most economical prices
	Best safety, special ergonomic and comfort features for professional use in attractive styles
	Superior safety performance, outstanding comfort and exclusive style, additional accessories

## Ergonomic and comfortable

All MSA spectacles are feather light and sit comfortably on the face, even after hours of use. Ergonomic design features increase the safety of the wearer and their sense of reassurance.

	<b>Soft/flexible temples</b>	Soft co-injected materials significantly increase wearer comfort and safety as the spectacles remains always in a perfect position
	<b>Length adjustment</b>	Perfect adjustment to individual headsize for a perfect fit and universal use.
	<b>Lens/temple inclination</b>	Easy-to-use ratchet system. Adaptation to individual face shapes to ensure gap-free all-around protection.



## Versatile and valuable

The variety of lens shades cover virtually all industrial applications. The following coating options protect your lenses from the daily risk of scratching and ensure good vision even at increased humidity or temperature changes. Also recommended for use with filtering facepieces.

### MSA coatings



	<b>TuffStuff</b>	Excellent service time enhancing <b>anti-scratch</b> coating according to EN 166	■ ■	■	■ ■
	<b>Sightgard</b>	MSA's popular <b>anti-fog</b> coating with good anti-scratch properties	■	■	■ ■
	<b>OptiRock 4X</b>	MSA's durable high performance <b>anti-fog</b> coating with outstanding <b>anti-scratch</b> properties according to EN 166	■ ■	■ ■	■ ■

■ good ■ excellent

**Anti-scratch**  
Self sealing mechanism avoids scratching and enhances service time of lens to reduce cost.

**Anti-fog**  
Surface treatment prevents fogging up of lens. Having always a clear view, even in humid environments, helps prevent accidents.

**Anti-static**  
Dust repellent surface treatment to reduce need for cleaning.

**Anti-UV**  
Absorbs more than 99.9% of harmful ultraviolet radiation preventing long term damage to the eye.

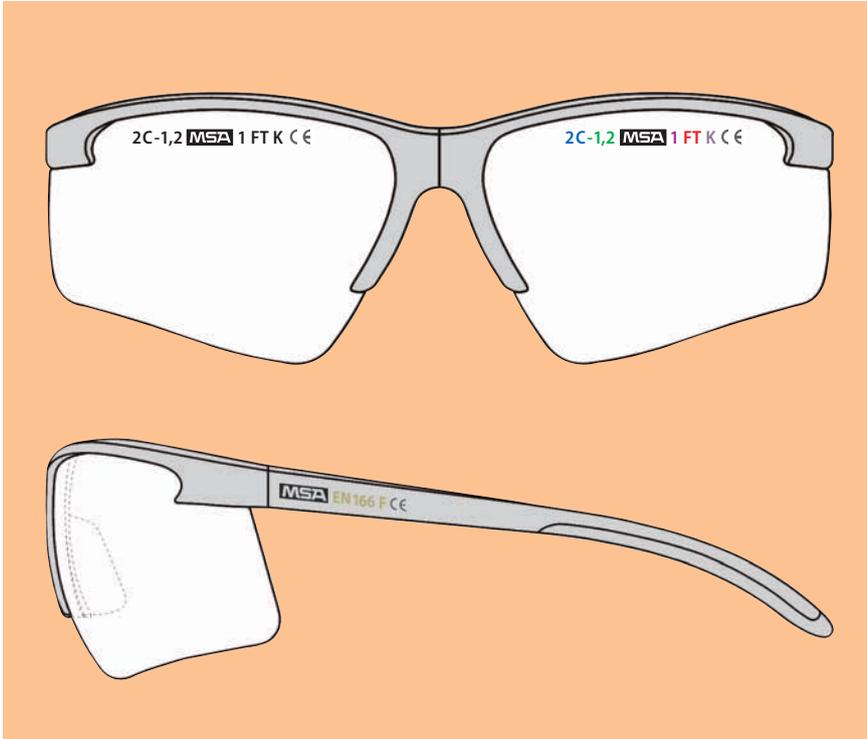
### Lens colours

Lens colour	Filter	Special use	Luminous transmittance	UV filter
Clear	2C-1.2	Most popular lens for indoor/general use	92%	99.9%
Amber	2-1.2	Contrast enhancement (quality inspection), low light environments (night shift)	86%	99.9%
Light gold mirror	5-1.7	Changing light conditions, driving, premium UV filter	55%	UV 400
Blue purple	5-2	Contrast enhancement in outdoor activities	34%	99.9%
Smoke	5-2.5	Most popular sun glare filter	18%	99.9%
Blue mirror	5-2.5	Modern antiglare filter for outdoor activities	19%	99.9%
Silver mirror	5-2.5	Modern antiglare filter for outdoor activities	21%	99.9%
Darkbrown	5-2.5	Enhanced outdoor vision	25%	99.9%
Rainbow mirror	5-3.1	Strong and stylish antiglare filter	13%	99.9%

### UV filters

<b>UV 400</b>	Premium protection from UV radiation. Blocks 100% of harmful UV light. Recommended when working in an environment that has high levels of UV radiation.
<b>UV Radiation</b>	All lenses filter out 99.9% of UV radiation.

## Lens and frame marking



### Filter class

- 2 Ultra violet radiation
- 2C Ultra violet radiation with enhanced colour recognition
- 5 Sunglare filter without infrared specification

### Scale number

Increases with decreasing luminous transmittance of lens

### Manufacturer

### Optical class

All MSA protective eyewear is designed for permanent wear (class 1).

### Resistance to impact

- S Increased robustness
- F High speed particles with low energy impact (45 m/s)
- B High speed particles with medium energy impact (120 m/s)
- T Additional resistance at extreme temperatures (-5 and 55°C)

### Resistance to

- N Distorted vision due to lens fogging
- K Surface damage by fine particles

### Protection against (only for goggles)

- 3 Liquid droplets and splash
- 4 Large dust particles
- 5 Gas and fine dust particles <5 µm
- 9 Molten Metal

### Certification mark

### Standard

## Approvals

All models are CE marked and meet or exceed the requirements of EN 166 and according to type EN 170 and 172.

A wide selection of models is certified to GOST standards.

## Accessories

Practical accessories allow you to keep your safety spectacles in constant easy reach and to maintain them in good condition. For details please see page 13.

Our selection guide on page 14 will help you to find MSA eyewear that meets your needs.



# New MSA Collection

## Alternator

*Adaptable to each application*



Basic version without inserts



Dust inserts vented & unvented



Practical storage case for spectacle, foam inserts & spare lenses available as accessory



Stylish two-colour frame

Vented temples with good lateral protection

Vented & non-vented dust inserts available as accessory

Exchangeable lenses



## Racers

*Utmost impact protection in the best style*



Exclusive nose bridge design



Comes with soft bag and cord



Dynamic frame design, available in black or with silver/red surface finish combined with a stylish red rainbow mirror lens

Formable wire temples adapt to different head sizes and provide a comfortable fit

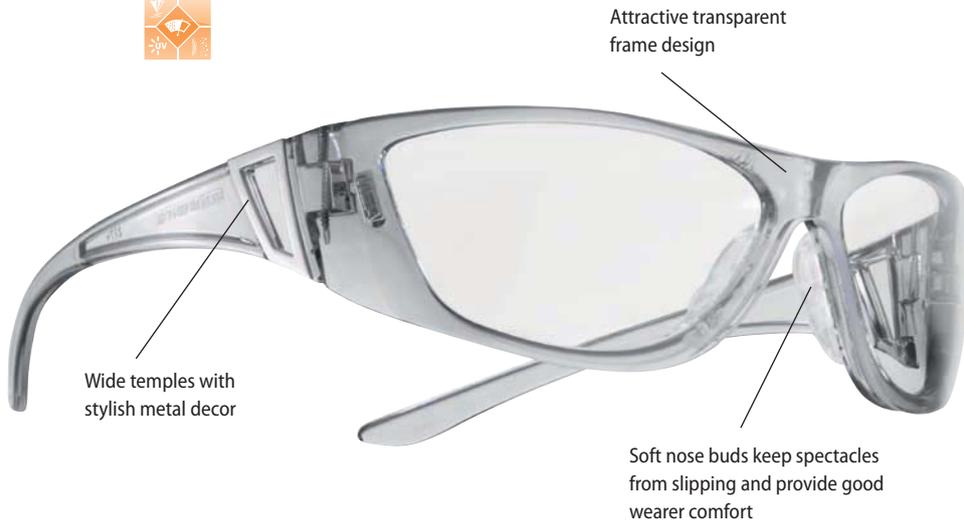
Very high impact resistant single lens, compliant to MIL-V-43511C clause 3.5.10. and MIL-PRF-31013 clause 3.5.1.1 (198 m/s)

Adjustable soft nose buds for perfect fit also on different nose shapes



## Metropol

*Safety eyewear with a touch of elegance*



Elegant metal decor

## Milan

*Extravagant sunglasses for outdoor work*



Stylish frame design

# New MSA Collection

## Altimeter

*Hybrid design for universal use*



Ventilation holes



Comes with a split headband & a set of temples



18 large ventilation slits ensure a comfortable and airy fit



Soft frame for complete eye enclosure and superior shock absorption

Angle adjustable ratchet to use with flexible headband or length adjustable soft temples

## ChemPro

*Fresh look, soft fit and complete protection*



"Soft touch" body that adapts perfectly to the face



Easily changeable lenses, available as spare part

Comfortable headband with length adjustment

Sightgard coated lens provides resistance to impact at extremes of temperature and protects against molten metal splash

Indirect ventilation allows air movement whilst protecting against splash and coarse dust

# PERSPECTA Comfort Line

## PERSPECTA 1320

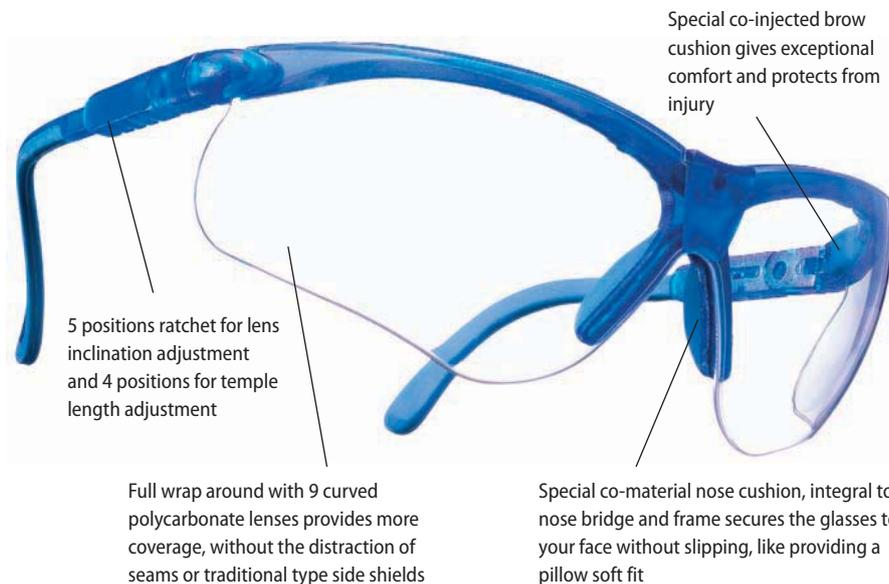
*Multi-adjustable, for universal use*



Full wrap around with 9.75 curved polycarbonate lens provides an undistorted 180° view

## PERSPECTA 010

*Hi-tech style with ultimate protection*

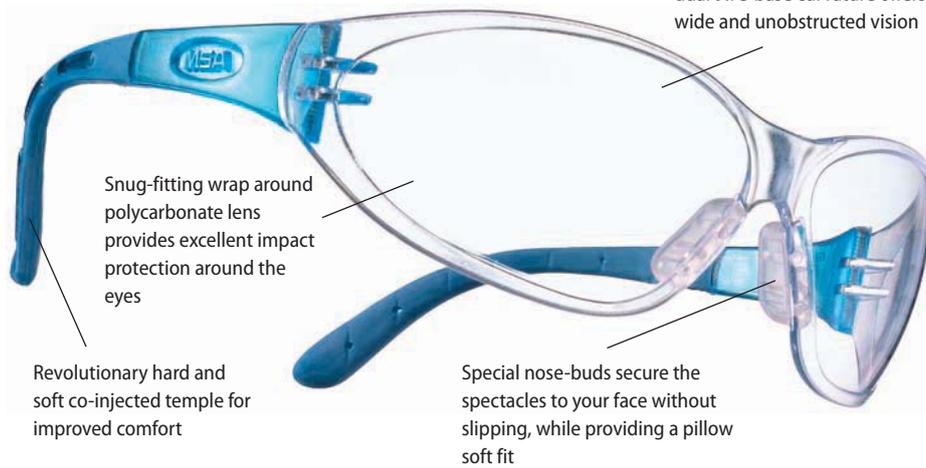


Co-injected brow bar provides cushion fit and allows air exchange

# PERSPECTA Comfort Line

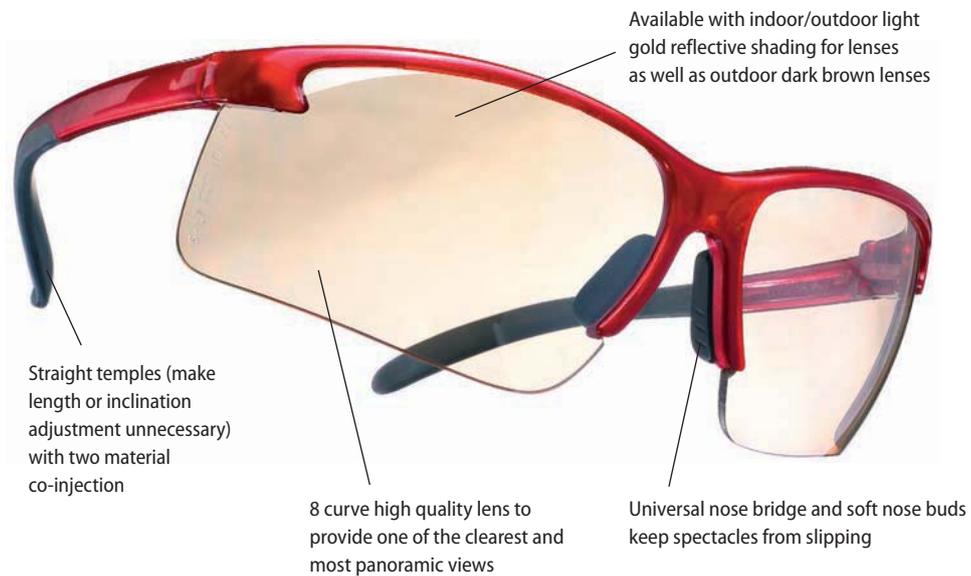
## PERSPECTA 9000

*Extremely lightweight and snug-fitting*



## PERSPECTA 1900

*Stylish and lightweight panoramic view design*



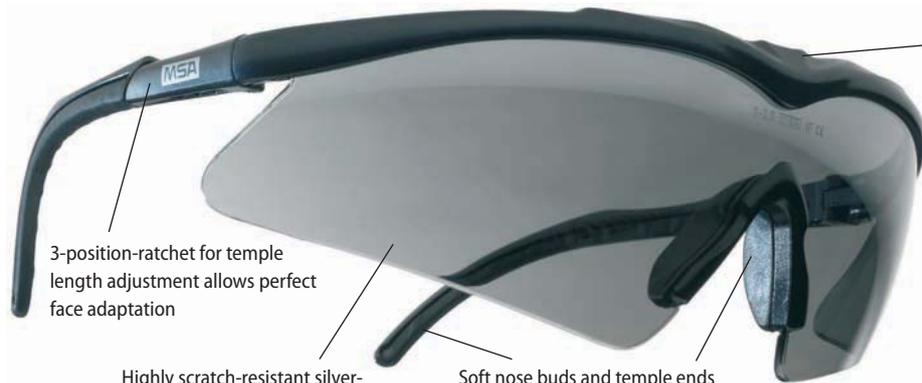
# PERSPECTA Comfort Line

## PERSPECTA 2320

*The premium solution for outdoor activities*



Includes a practical rigid case to store and carry your spectacles



Attractive frame design with high value glossy surface finish

3-position-ratchet for temple length adjustment allows perfect face adaptation

Highly scratch-resistant silver-mirror lens with antifog coating

Soft nose buds and temple ends keep spectacles from slipping and provide good wearer comfort

## PERSPECTA GIV 2300

*A new dimension in style and comfort*



Flexible body that adapts perfectly to the individual contours of the face

Panorama antifog lens, impact-resistant at extreme temperatures



Comfortable headband with length adjustment

11 indirect air vents provide good circulation while protecting against splash and dust

# PERSPECTA Classic Line



## PERSPECTA 1070



"Classic" wrap-around single lens spectacles, incorporating side shields, which can also be worn over most prescription spectacles. The arms of these spectacles have 5 length adjustments and also pivot at the temple for a perfect fit.

## PERSPECTA FL250



The lightweight in the range at only 25 g. Sleek, single lens, "cat's eye" spectacles giving a close fit that is especially suited to smaller faces. The low profile design has very smooth surfaces.



## PERSPECTA 2047W

Offering all round protection, these stylish single lens spectacles with vented side shields, are ideal for visitors and regular wearers alike. Fit over most prescription eyewear.

## PERSPECTA GH 3001



Comfortable goggles with indirect ventilation. Suitable for laboratory workers due to their high protection class.



## PERSPECTA GV 1000



Lightweight and economical goggles with direct ventilation for basic use. Also suitable for arts and crafts hobbyists and general DIY use.



## Cleaning & antimist solutions

Remove stains from oil or grease. klar-pilot gel or spray is spread on lenses to prevent their misting up. Suitable for lenses of totally encapsulating suits, full face masks, safety spectacles and goggles.

### Ordering Information

GA1616	klar-pilot gel, 25 ml bottle
10032164	klar-pilot fluid, 100 ml spray
10104680	Wet lens cleaning towelettes (100 pcs)
D8241079	Cleaning spray bottle, 110 ml
D8133039	Wiping tissues, replacement pack (280 sheets)

## Spare lenses

Economical solution to enhance service life of spectacles in case lenses need to be replaced (e.g. when scratched).

### Ordering Information (pack of 12)

10104667	Alternator spare lenses, clear, Sightgard coating
10104668	Alternator spare lenses, clear, OptiRock 4X coating
10104672	ChemPro spare lens, clear, Sightgard coating
10104673	ChemPro spare lens, clear, OptiRock 4X coating



## Cords

Black neck cord with adjustable ends, fits all spectacles.

### Ordering Information (pack of 12)

10058135	PERSPECTA cord
10104679	Slip-on cord



## Foam inserts

Absorb impacts (vented insert) and prevent intrusion of coarse dust (non-vented insert).

### Ordering Information (pack of 12)

10104663	Alternator vented impact foam insert
10104664	Alternator non-vented soft cushion insert



## Cases

Practical spectacle cases, available in soft or rigid material. With zipper, velcro belt and hook, fit all spectacles.

### Ordering Information

10058134	PERSPECTA Soft case (pack of 12, carton of 10 packs)
10081939	PERSPECTA Hard case (pack of 6, carton of 15 packs)
10104677	Soft bag (pack of 12, carton of 10 packs)
10104665	Storage case for spectacle, foam inserts, spare lenses (pack of 6, carton of 10 packs)



## Value pack

Practical value pack for Alternator, including spectacle storage case, spectacles (with I/O lens), foam inserts, bag for spare lenses, cord and soft bag.

### Ordering Information

10104666	Alternator value pack (pack of 6, carton of 10 packs)
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## Displays

Attractive and compact stand-alone desktop displays for the complete range of MSA protective eyewear. Grey painted robust metal structure with plastic elements. Stationary display MINI 5 for up to 5 spectacles/goggles. Rotatable display MAXI 20 for up to 20 spectacles/goggles.

### Ordering Information

10085093	Display MINI 5 (15 x 48 cm)
10085094	Display MAXI 20 (18 x 72 cm)

# Eyewear Selection Guide

APPLICATIONS	PICTURE	ORDERING INFORMATION			LENS		
		PERSPECTA Model	Part No.	Pcs./Pack	Colour	UV Filter	Marking
<p><b>SAFETY SPECTACLES</b> All models protect against mechanical impact, dust and UV radiation and can be used for: Machining Operations, Varnishing, Grinding, Driving, Assembly, Quality Inspection, For Visitors, Outdoor Activities (Sun Glare, Air Flow), Handling of Hazardous Material, etc.</p> <p>e.g. in the following industries: Automotive, Electronics, Textile, Utilities, Construction, Metal, Chemical, Petrochemical, Pharmaceutical Industry</p>		Alternator	10104619	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		Alternator	10104620	12	Amber	99.9%	2-1,2 MSA 1 FT CE
		Alternator	10104661	12	Smoke	99.9%	5-2,5 MSA 1 FT CE
		Alternator	10104662	12	Light gold mirror	UV400	5-1,7 MSA 1 FT CE
		Racers	10104614	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		Racers	10104615	12	Amber	99.9%	2-1,2 MSA 1 FT CE
		Racers	10104617	12	Smoke	99.9%	5-2,5 MSA 1 FT CE
		Racers	10104616	12	Light gold mirror	UV400	5-1,7 MSA 1 FT CE
		Racers	10104618	12	Red rainbow mirror	99.9%	5-3,1 MSA 1 FT CE
		Metropol	10104669	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		Milan	10104670	12	Dark brown	UV400	5-2,5 MSA 1 S CE
		Altimeter	10104674	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		PERSPECTA 1320	10075296	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		PERSPECTA 1320	10075287	12	Blue purple	99.9%	5-2 MSA 1 FT CE
		PERSPECTA 1320	10075286	12	Smoke	99.9%	5-2,5 MSA 1 FT CE
		PERSPECTA 010	10045641	12	Clear	99.9%	2C-1,2 MSA 1 FT K CE
		PERSPECTA 010	10045642	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		PERSPECTA 010	10045643	12	Amber	99.9%	2-1,2 MSA 1 FT CE
		PERSPECTA 010	10045644	12	Smoke	99.9%	5-2,5 MSA 1 FT CE
		PERSPECTA 9000	10045516	12	Clear	99.9%	2C-1,2 MSA 1 FT K CE
		PERSPECTA 9000	10045517	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		PERSPECTA 9000	10045518	12	Smoke	99.9%	5-2,5 MSA 1 FT CE
		PERSPECTA 9000	10045519	12	Amber	99.9%	2-1,2 MSA 1 FT CE
		PERSPECTA 9000	10045640	12	Blue mirror	99.9%	5-2,5 MSA 1 FT CE
		PERSPECTA 1900	10045645	12	Light gold mirror	UV400	5-1,7 MSA 1 FT CE
		PERSPECTA 1900	10045646	12	Dark brown	99.9%	5-2,5 MSA 1 FT CE
		PERSPECTA 1900	10045647	12	Clear	99.9%	2C-1,2 MSA 1 FT CE
		PERSPECTA 1900	10045648	12	Clear	99.9%	2C-1,2 MSA 1 FT K CE
	PERSPECTA 2320 Set with hard case	10075288	6	Silver mirror	99.9%	5-2,5 MSA 1 F CE	
	PERSPECTA 2047W	10064800	12	Clear	99.9%	2C-1,2 MSA 1 FT CE	
	PERSPECTA FL250	10064842	12	Clear	99.9%	2C-1,2 MSA 1 FK CE	
	PERSPECTA 1070	10064797	12	Clear	99.9%	2C-1,2 MSA 1 FT K CE	
<p><b>SAFETY GOGGLES</b> All models protect against liquid splash and coarse dust and can be used for: Laboratory Work, Handling of Chemicals, Stone Dressing, etc.</p> <p>e.g. in the following industries: Chemical, Medical and Pharmaceutical Industry, Construction, Agriculture</p>		ChemPro	10104671	6	Clear	99.9%	2C-1,2 MSA 1 BT 9N CE
		PERSPECTA GIV 2300	10076384	6	Clear	99.9%	2C-1,2 MSA 1 BT CE
		PERSPECTA GH 3001	10064844	6	Clear	99.9%	2C-1,2 MSA 1 B CE
		PERSPECTA GV 1000	10064843	10	Clear	99.9%	2-1,2 MSA 1 B CE

# Eyewear Selection Guide

		FRAME						MATERIAL & WEIGHT		PERFORMANCE INDICATOR
Impact	Coating	Colour	Marking	Fits over prescription lenses	Soft temples	Adjust. length	Lens inclination	Material (Lens, frame)	Weight	
FT	Sightgard	Blue	MSA EN 166-FT CE					Polycarbonate	35 g	★★★
FT	Sightgard	Blue	MSA EN 166-FT CE					Polycarbonate	35 g	★★★
FT	Sightgard	Blue	MSA EN 166-FT CE					Polycarbonate	35 g	★★★
FT	Sightgard	Blue	MSA EN 166-FT CE					Polycarbonate	35 g	★★★
FT, MIL	Sightgard	Black	MSA EN 166-FT CE		■			Polycarbonate	31 g	★★★
FT, MIL	Sightgard	Black	MSA EN 166-FT CE		■			Polycarbonate	31 g	★★★
FT, MIL	Sightgard	Black	MSA EN 166-FT CE		■			Polycarbonate	31 g	★★★
FT, MIL	Sightgard	Black	MSA EN 166-FT CE		■			Polycarbonate	31 g	★★★
FT, MIL	Sightgard	Glossy silver-red	MSA EN 166-FT CE					Polycarbonate	31 g	★★★
FT	Sightgard	Transparent	MSA EN 166-FT CE					Polycarbonate	34 g	★★
S	Sightgard	Tortoise	MSA EN 166-S CE					Polycarbonate	41 g	★★
FT	Sightgard	Clear	MSA EN 166-FT CE		■	■	■	Polycarbonate, TPE	38–42 g	★★★
FT	Sightgard	Black	MSA EN 166-FT CE		■	■	■	Polycarbonate	29 g	★★
FT	Sightgard	Black	MSA EN 166-FT CE		■	■	■	Polycarbonate	29 g	★★
FT	Sightgard	Black	MSA EN 166-FT CE		■	■	■	Polycarbonate	29 g	★★
FT	TuffStuff	Transparent blue	MSA EN 166-FT CE		■	■	■	Polycarbonate	32 g	★★
FT	Sightgard	Transparent blue	MSA EN 166-FT CE		■	■	■	Polycarbonate	32 g	★★★
FT	Sightgard	Transparent blue	MSA EN 166-FT CE		■	■	■	Polycarbonate	32 g	★★★
FT	Sightgard	Transparent blue	MSA EN 166-FT CE		■	■	■	Polycarbonate	32 g	★★★
FT	TuffStuff	Light blue	MSA EN 166-FT CE		■			Polycarbonate	26 g	★
FT	Sightgard	Light blue	MSA EN 166-FT CE		■			Polycarbonate	26 g	★★
FT	Sightgard	Smoke/blue	MSA EN 166-FT CE		■			Polycarbonate	26 g	★★
FT	Sightgard	Amber/blue	MSA EN 166-FT CE		■			Polycarbonate	26 g	★★
FT	TuffStuff	Smoke/blue	MSA EN 166-FT CE		■			Polycarbonate	26 g	★★
FT	Sightgard	Burgundy red	MSA EN 166-FT CE		■			Polycarbonate	27 g	★★
FT	Sightgard	Burgundy red	MSA EN 166-FT CE		■			Polycarbonate	27 g	★★
FT	Sightgard	Black	MSA EN 166-FT CE		■			Polycarbonate	27 g	★★
FT	TuffStuff	Black	MSA EN 166-FT CE		■			Polycarbonate	27 g	★
F	TuffStuff	Dark grey	MSA EN 166-F CE		■	■		Polycarbonate	33 g	★★★
FT	–	Clear	MSA EN 166-FT CE	■				Polycarbonate	45 g	★
FK	TuffStuff	Clear	MSA EN 166-F CE					Polycarbonate	25 g	★
FT K	TuffStuff	Red	MSA EN 166-FT CE			■	■	Polycarbonate	38 g	★
BT	Sightgard	Dark grey	MSA EN 166 349-BT CE	■		■		Polycarbonate, TPE	78 g	★★★
BT	Sightgard	Clear	MSA EN 166 34-BT CE	■		■		Polycarbonate, PVC	122 g	★★★
B	Sightgard	Smoke	MSA EN 166 34-B CE	■				Polycarbonate, PVC	68 g	★★
B	Sightgard	Clear	MSA EN 166-B CE	■				Polycarbonate, PVC	60 g	★

# MSA – Your global safety partner

With operations on 5 continents, over 40 international locations and hundreds of distribution partners around the globe, MSA offers a unique range of safety products for a large number of industries.



Supplied Air Respirators



Air-Purifying Respirators



Head & Hearing Protection



Body Protection



Thermal Imaging



Portable Gas Detection



Permanent Gas Detection

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**MSA**  
The Safety Company