

**Eye-protection EN 166:2001 / AS/NZS 1337:1992****Information for Users**

This eye and face protector satisfies the requirements of the European Directive for Personal Protective Equipment (PPE) 89/686/EEC and has been manufactured in accordance with the requirements of the European Technical Performance Standard EN 166:2001.

It carries the European Union compliance Mark **CE**.

If it also carries the Australia standards mark **A**, it also satisfies the requirements of Standards Australia and Standards New Zealand and has been manufactured in accordance with the requirements of AS/NZS 1337:1992.

**Selection and Areas of Use**

Each eye and face protector is marked in accordance with the table below to identify its fields of use and performance as required under EN 166:2001/AS/NZS 1337:1992.

**Meaning of Markings**

	(Frame and Ocular)	Product Marking	
		CE	AS/NZS
Mechanical Strength		S	-
Increased robustness	(12m/s)	F	-
Low energy impact	(45m/s)	B	I
Medium energy impact	(120m/s)	A	V
High energy impact	(190m/s)		

If the ocular/visor and frame/housing/brow guard do not carry identical markings relating to mechanical strength the whole eye protector is classified as the lowest. (CE-only)

If the impact grade is followed by the letter "T" i.e. "FT", the Eye-protector provides protection against High Speed Particles at Extremes of Temperature (-5C / +55C). (CE only)

If the impact grade is NOT followed by the letter "T", then the Eye-protector shall be only used at room temperature for protection against impact. (CE only)

**Optical Performance (Ocular Only) (CE only)**

Optical class 1	1
Optical class 2	2
Optical class 3 (not suitable for long periods of use)	3

**Optional Requirements (CE only)**

Ocular resistant to damage by fine particles	K
Ocular resistant to fogging	N
Ocular with enhanced reflectance	R
Original Ocular	O
Replacement Ocular	∇

For laminated glass ocular, the fitting direction is marked on the back side.

**Field(s) of Use (Frame and Ocular)**

Outdoor use	-	O
Liquids droplets (goggle only)	3	C
Liquids splashes (face-shields only)	3	-
Large Dust Particles (goggle only)	4	D
Gas & Dust Particles (goggle only)	5	G
Short Circuit Electrical Arc (face-shields only)	8	-
Molten Metal & Hot Solids (goggle or faceshield)	9	M

Both lens and housing/brow-guard must carry the "9" in addition of impact grades "F" or "B" or "A". (CE only).

**Designation of Filters (Lens only) (CE only)**

Filter Identification	Product Marking	
	Shade	
Welding filter	-	1.2 to 16
Ultraviolet filters (colour recognition may be affected)	2	1.2 to 5
Infrared filter	4	1.2 to 10
Sunglare filter (without infrared specifications)	5	1.1 to 4.1
Sunglare filter (with infrared specification)	6	1.1 to 4.1

When filter identification is followed by the letter "C", i.e. 2C, color recognition is not impaired.

For additional information, please refer to EN 169, EN 170, EN 171, and EN 172.

For welding operation, use only ocular marked with welding shade **1.2 to 16**.

Ensure replacement filter lenses are of equal specification to those being replaced. Toughened mineral filter shall only be used in conjunction with a suitable backing ocular. Spectacles only provide limited levels of protection.

**Eye Protector Size (CE only)**

Eye-protector designed to fit a small head. Frame marking includes the letter "H".

**Storage, Use and Maintenance**

Each eye protector should be stored after use in a clean dedicated environment away from excessive heat and moisture.

Storage temperature = 0°C - 40°C  
Relative humidity = 30% - 80%

Transport the protector in its original packaging or equivalent container.

Ensure before use that the eye protector is undamaged.

Scratched or damaged oculars should be replaced ensuring that instructions for fitting, which accompany replacement parts, are adhered to.

Please be aware that eye-protectors against High Speed Particles worn over standard ophthalmic spectacles may transmit impact, thus creating a hazard to the wearer.

**Cleaning and Disinfection**

Each eye protector should be cleaned using a mild detergent or a suitable lens cleaner. The eye protector may be sterilised using a mild solution of disinfectant. Do not use solvent for the cleaning of the eye-protector.

Please be aware that some materials which come into contact with the skin may cause allergic reactions to susceptible individuals.

**Ageing and Obsolescence**

All SPERIAN products are manufactured from stabilized plastic materials which should not unduly age over the expected life of the product.

Ageing of plastics can occur under strong UV light conditions.

In any event oculars or visors should be replaced after a maximum 2 years service.

Frames, housing and brow guards after 3 years service.

