

3M™ Ecko Safety Spectacle

Technical Data Sheet

Description

The 3M™ Ecko safety spectacle offers affordable eye protection without diminishing optical and performance qualities. Its wraparound styling provides excellent cheek to lens fitting and minimises any gaps.

- Economical design for high volume users.
- Lightweight construction for comfort, wear time and compliance
- Stylish and compatible with other PPE.
- One piece polycarbonate for strength and robustness.
- Anti-scratch coated lens improves longevity in dusty environments.
- Suitable for indoor (clear) and outdoor
- Medium Impact resistant polycarbonate lens
- >99.9% UV protection (Solar Radiation) for use outdoors

Applications

Suitable applications for the Ecko safety spectacle include: grinding, cutting, non-hazardous liquids, lathe work, dust, sawing, chipping, riveting, glare and solar radiation.

Specifications

	Ecko
Frame	One piece (Polycarbonate)
Side Arms	Polycarbonate
Weight	40g approx
Lens Material	Polycarbonate
Lens Types	Clear Smoke (Category 3) Clear Mirror
Ratings	Medium Impact

Standards

The Ecko safety spectacles have been tested and certified to AS/NZS 1337.1:2010.

The Ecko safety spectacles have a medium impact (I or F) rating.



Maintenance/cleaning

If the lens becomes scratched or pitted it should be replaced.

Avoid exposure or contact of the lens with vapour or liquids which may cause surface crazing and reduce the impact resistance. Inspect and clean the spectacles regularly and replace if broken or damaged.

Thoroughly clean all surfaces with lens cleaner or mild soap solution.

Do not clean spectacle with solvents. Air dry or pat dry with clean, soft cloth or tissue.

The use of solvents, harsh detergents or abrasives is not recommended. Avoid exposure to MEK, Sulphuric Acid, Methylene Chloride, Toluene, Paint Thinner & Acetone.

Disposal

If the product is to be disposed of, it should be disassembled and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.

Lens Markings

Markings on eye protectors are a requirement for certification. It assists users in identifying their intended use. They are identified by the following:

Standard	Lens Marking	Explanations
AS/NZS 1337.1:2010	I = Medium Impact O = Outdoor/Indoor (untinted or amber)	OUTDOOR UNTINTED (FOR INDOOR AND OUTDOOR USE) These protectors are intended for indoor and outdoor use where no optical radiation hazards exist other than solar radiation.
	I = Medium Impact (outdoor tinted, smoke, brown or photo chromatic)	OUTDOOR TINTED These protectors are intended for outdoor use where no optical radiation hazards exist other than solar radiation. They are intended to provide adequate protection against sun glare and ultraviolet radiation from the sun.

Impact protection is determined by the test velocity of a steel ball projectile. A ballistic test rig fires either a 6.00mm or a 6.35mm projectile ball at speeds from 12m, up to 190m per second.

Standard	Rating	Impact Protection Situations	Type of Protection
AS/NZS 1336:2014	Low Impact	Hammering, handling wire, brick chipping by hand	Spectacles
AS/NZS 1336:2014	Medium Impact	Grinding, machining metals, woodworking	Spectacles, Eshields or lightweight visor systems
AS/NZS 1336:2014	High Impact	Concrete cutting, high speed disc grinding, metal cutting	Visor systems only
AS/NZS 1336:2014	Extra High Impact	Abrasive shot blasting, ballistic, military, electrical maintenance	Visor systems only

Selecting eye protection is very much about identifying the hazards and assessing the risks. Selecting the wrong type of PPE can have serious consequences. It is important to consider the velocity, size and the nature of the hazard when evaluating eye/face protection.

Australian/New Zealand Standards AS/NZS 1336:2014 is an excellent reference document and provides assistance.

Medium impact safety spectacles provide protection from medium energy flying particles. For more information on tinted lenses and compliance testing to AS/NZS 1067 (sunglass standard) contact 3M.

Ordering Information

3M Code	Model #	Description
AT010658428	SNN170C	3M™ Ecko Clear Lens Safety Spectacle
AT010658444	SNN170S	3M™ Ecko Smoke Lens Safety Spectacle
AT010658436	SNN170CM	3M™ Ecko Clear Mirror Lens Safety Spectacle

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