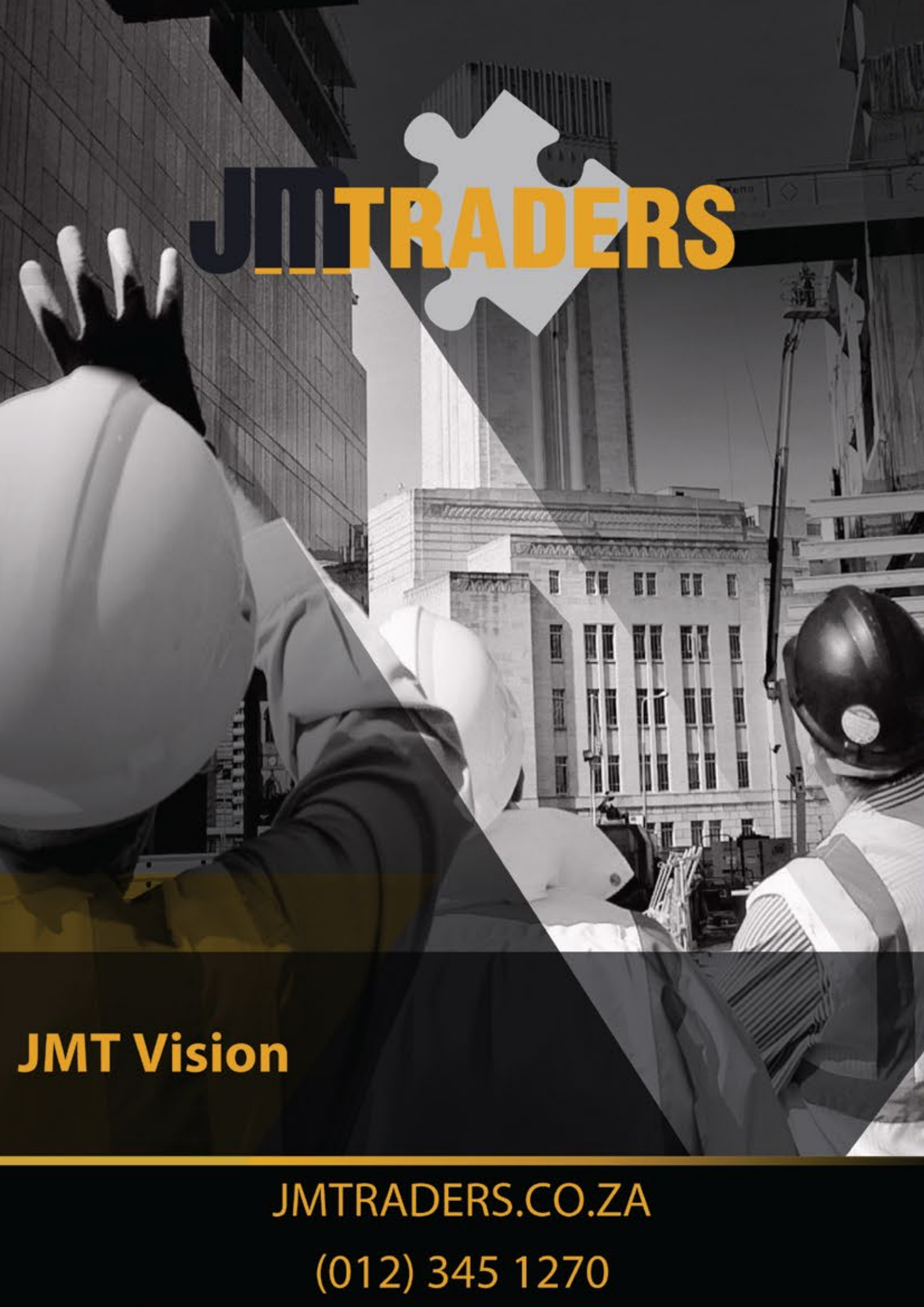




JMT TRADERS

JMT Vision

JMTRADERS.CO.ZA

(012) 345 1270



BASIC REQUIREMENTS of CE EN 166:2001

The EN166 standard is applicable to all types of personal eye protectors used against various dangers liable to damage the eye or to alter the vision, with the exception of radiation of nuclear origin, X-rays, laser beams, infrared rays emitted by sources at low temperature. The specifications of this standard are not applicable to eye protectors for which separate and complete standards exist, such as anti-laser eye protector, all-purpose solar spectacles, etc.

The eye protectors fitted with corrective lenses are not excluded from the application field. Not all types of eye protectors are permitted to meet all these requirements.



Identify The potential hazards (hazardous light, impacting particles, splashes etc).



Assess The hazards and potential health risks and consider other requirements such as skin protection etc.

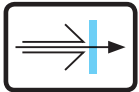


Select The proper eye protector suitable for the hazards. This is made easy using the EN 166 marking system.



Training This is a very important step to optimise eye protection by ensuring the operator is proficient in the use and limitations of his/her eye protector.

BASIC TESTS & MARKING



**DESIGNATION OF FILTERS
SCALE NUMBER**

OCULAR (1 – 6)

Scale Number - for oculars with filtering effect only.

Higher numbers have a stronger filtering effect (e.g. are darker for welding).

NIL Welding filters have no code number.

A shade number between 1.2 and 16. Suffix "a" denotes filter for use in gas welding with flux.

See EN 169 and EN 379

Eg 1,2a

2 Ultraviolet Filter with colour recognition effected

– plus shade number between 1,2 to 5 as per EN 170

Eg 2-1.2

3 Ultraviolet Filter with good colour recognition

– plus shade number between 1,2 to 5 as per EN 170

Eg 3,1.2

4 Infra Red Filter as per code number for IR filters

– plus shade number between 1.2 and 10 as per EN 171

5 Sunglare Filter code number for sunglare filters without IR specification

– plus shade number between 1.1 and 4.1 as per EN 172 and EN 1836

6 Sunglare Filter code number for sunglare filters with IR specification

– plus shade number between 1.1 and 4.1 as per EN 172 and EN 1836

ORDER OF MARKING ON OCULARS WHERE REL EVANT:



ORDER OF MARKING ON FRAMES WHERE REL EVANT:



LENS SELECTION AND APPLICATION:

Clear		general indoor use eye protection against impact hazards	
Grey		sunglare 5-2,5	Outdoor anti-glare use to prevent eye fatigue from sun glare
Amber		uv 2-1,2	Prevention of high density light (hdl) for contrast and rotational clarity
Green		sunglare 5-2,0	Prevent eye fatigue from indirect light flash
Ir green		infrared 4-ir3 or 5	Used for certain welding & gas cutting techniques
Mirror		sunglare 5-1,7	Indoor/outdoor (i/o) for artificial and sunlight glare
Blue		sunglare 5-2,5	Outdoor anti-glare use to prevent eye fatigue from sun glare



FIELD OF VISION (OPTICAL CLASS)

1 - ± 0.06 DIOPTRES

2 - ± 0.12 DIOPTRES

3 - ± 0.25 DIOPTRES

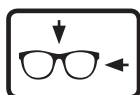
Optical class 1, 2 or 3 - indicates optical quality of the ocular and the wear duration

OCULAR (1 – 3)

PERMANENT WEAR

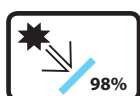
OCCASIONAL WEAR

EXCEPTIONAL WEAR



ROBUSTNESS

FRAME AND OCULAR are required to withstand specified lateral and frontal impacts at specified speeds



AGEING

FRAME AND OCULAR stability at elevated temperatures and ultraviolet radiation (oculars only)



HIGH SPEED PARTICLES

F – LOW ENERGY

B – MEDIUM ENERGY

A – HIGH ENERGY

S – INCREASED ROBUSTNESS

OCULAR (6mm STEEL BALL (0.86g))

45 m/s

120 m/s

190 m/s

(See optional below)

X	X	X
	X	
		X
X	X	X



OTHER FIELDS OF USE



3 – LIQUIDS

Liquid droplets for goggles

Liquid splash for face shields but not mesh

X

X



4 – LARGE (COARSE) DUST PARTICLES for goggles

X



5 – GAS & FINE DUST PARTICLES

X



8 – SHORT CIRCUIT ELECTRIC ARC

Face-shield to comply with a filter of scale number 2-1,2 or 3-1,2 and have a minimum thickness of 1,4 mm

X

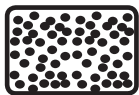


9 – MOLTEN METAL & HOT SOLIDS

Both the frame and ocular shall be marked with this symbol together with one of the symbols F, B or A

X

X



K – GAS & FINE PARTICLE DAMAGE

X



N – RESISTANCE TO FOGGING (8 seconds)

X

X

X

G – RADIANT HEAT (EN 1731)

X

S – INCREASED ROBUSTNESS (22mm ball at 5.1 m/s)

X

X

X

T – EXTREME TEMPERATURE (-5 to 55°C)

X

X

X

Used in conjunction with either F, B or A to indicate that the eye protector conforms to the high-speed particle classification at extremes of temperature



ANTI-SCRATCH

Optional anti-scratch coating to protect the eye protector

JMTVision

Classic Extreme Spectacles



DV - 55C-AF



DV - 55G-AF



CLASSIC EXTREME FEATURES

- Polycarbonate dual lens
- Black nylon adjustable temples
- Soft nose seat for comfort
- Ergonomically designed to fit snug with the face contour
- Designed to be compatible with other respiratory equipment
- Scratch resistant
- 180° lateral vision
- 24 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

JMTVision

Wrap Around Spectacles



DV - 1C



DV - 1GN



DV - 1A



WRAP AROUND FEATURES

- Polycarbonate mono lens
- Polycarbonate temples with ventilation
- Ergonomically designed to fit snug with the face contour
- Designed to be compatible with other respiratory Equipment
- Scratch resistant
- Can be used with prescription spectacles
- 120° lateral vision
- 40 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

JMTVision

Euro Spectacles



DV - 026C (ALSO IN AF)



DV - 026G



DV - 026GN



DV - 026A



EURO FEATURES

- Polycarbonate mono lens
- Black nylon adjustable temples
- Ergonomically designed to fit snug with the face contour
- Designed to be compatible with other respiratory equipment
- Scratch resistant
- 180° lateral vision
- 34 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

JMTVision

Euro Weld Spectacles



IR3 - DV - 1F
EN166 F CE

DV-026 IR3



IR5 - DV - 1F
EN166 F CE

DV-026 IR5



EURO FEATURES

- Polycarbonate mono lens
- Black nylon adjustable temples
- Ergonomically designed to fit snug with the face contour
- Designed to be compatible with other respiratory equipment
- Scratch resistant
- 180° lateral vision
- 34 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

JMTVision

Beamer Spectacles



DV - 29C-AF



DV - 29A-AF



DV - 29 SM-AF



DV - 29 BLUE



BEAMER FEATURES

- Polycarbonate dual lens
- Silver plastic styled frame & temples with black rubber finish
- Soft nose seat for comfort
- Black sealed foam face protector
- Ergonomically designed to fit snug with the face contour
- Designed to be compatible with other respiratory equipment
- Scratch resistant
- 180° lateral vision
- 28 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

JMTVision

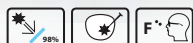
Sporty Spectacles



DV - 12C (ALSO IN AF)



DV - 12G



DV - 12GN



DV - 12A-AF



DV - 12M



SPORTY FEATURES

- Polycarbonate mono lens
- Wide black nylon temples
- Ergonomically designed to fit snug with the face contour
- Designed to be compatible with other respiratory equipment
- Scratch resistant
- 120° lateral vision
- 24 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

JMTVision

Eyewear Accessories



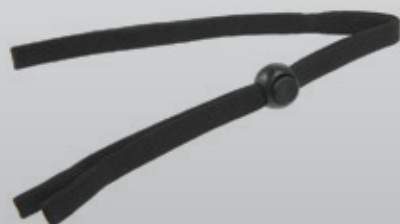
N57-1N



F POUCH



8A-G



2803-W



N57-1N

BLACK UTILITY PROTECTOR BAG

- Black polyester padded belt bag
- Dual webbing belt loops
- Zip up
- Clip connector

F POUCH

FABRIC PROTECTOR BAG

- Soft spectacle pouch cleaning bag
- Draw string close

2803 W

BLACK RETAINER CORD

- Black 3 mm fabric tube
- Sock temple attachment
- Toggle adjuster for snug fit

8A-G

GREEN RETAINER CORD

- Green 3 mm polyester cord
- Loop and spring temple attachment

JMTVision

Spogge



2-1,2 DV-1 FN
EN166 F CE

DV-326B-C-AF CLEAR



5-2,5 DV-1 FN
EN166 F CE

DV-326B-G-AF GREY



SPOGGLE FEATURES

- Used as a spectacle or a goggle
- Polycarbonate mono lens
- Soft rubber face seal
- Efficient indirect ventilation system
- Detachable black nylon adjustable temple
- Detachable 12mm adjustable elasticated headband
- Ergonomically designed to fit snug with the face contour

- Designed to be compatible with other respiratory equipment
- Complete with a detachable prescription (rx) lens holder
- Scratch resistant & Anti-mist
- 120° lateral vision
- 40/42 gram

PACKAGING

Packed 25 boxes of 12 individually wrapped eye protectors per carton (300)

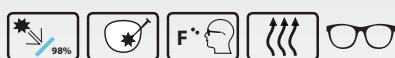
JMTVision

Goggles



DV - 1 F N
EN166 F CE

DV-11



DV - 1 F
EN166 F CE

DV-21



DV - 1.9 B
EN166 3.4.9.B CE

DV-001AM



WIDE VISION GOGGLES

- Clear polycarbonate mono lens
- 14 mm elasticated & adjustable headband
- High quality vinyl frame
- Ergonomically designed to fit snug with the face contour
- Face contact area designed for comfort and seal
- Designed to be compatible with other respiratory equipment
- Scratch resistant lens
- 120° lateral vision

DV-11 (Direct Mesh Vent)

- Efficient direct micro ventilation system
- 58 gram

DV-21 (In-Direct Mesh Vent)

- Indirect dual ventilation system
- 68 gram

PACKAGING

- DV-11 & DV-21
200 individually wrapped goggles per carton
- DV-001AM
100 goggles per carton, 10 boxes of 10 goggles

DV-001AM

- Clear polycarbonate mono lens
- 12 mm elasticated & adjustable headband
- High quality vinyl frame
- Ergonomically designed to fit snug with the face contour
- Efficient indirect quad ventilation system
- Designed to be compatible with other respiratory equipment
- Scratch resistant lens
- Anti-mist coated lens
- Can be used with prescription spectacles
- 90° lateral vision

JMTVision

Maximum View Goggle

DV-004 MAX



2-1,2 DV-1.9.F N
EN166 3.4.9.F CE



MAXIMUM VIEW DV-004 MAX

- Clear (EN170 2-1,2) polycarbonate mono lens
- 25 mm elasticated & adjustable headband
- High quality vinyl frame
- Ergonomically designed to fit snug with the face contour
- Wide face contact area for comfort and seal
- Efficient indirect ventilation system
- Designed to be compatible with other respiratory equipment
- Scratch resistant lens
- Anti-mist coated lens
- Can be used with prescription spectacles
- 180° lateral vision
- 126 gram

PACKAGING

- 100 goggles per carton
- 10 boxes of 10 individually wrapped goggles