

TECHNICAL DATA SHEET

PRODUCT : SAFETY SPECTACLES

REF. NO. : ES 006 (CLEAR/ANTIFOG & INDORE/OUTDORE)



DOC. NO.	QF/RD/05
ISSUE	01
REVISION	04
DATE	15-04-2020

CONFORMING TO EN 166:2001 & ANSI Z 87.1-2015

1	GENERAL PARAMETERS	TYPE	Spectacles
		DESIGN	Wraparound Spectacle Adjustable Temple Length Flexible Nose Pad and Temples
		APPLICATION	All Industrial Settings where Dust/Flying Particles Protection or Ultraviolet Protection is required and where light conditions change from normal to bright
		LENS COLOR OPTIONS	Clear, Indoor-Outdoor
		MECHANICAL HAZARD PROTECTION	Frontal & Lateral Impact Resistance
		OPTICAL HAZARD PROTECTION	99.9% UV Protection
		MATERIALS	Lens – Polycarbonate Temples – Nylon Nose Pad- PVC
		OPTICAL CLASS	Class I
		COATINGS	Hard Coated for Scratch Resistant & Antifog
		MARKING/ SCALE NO.	CLEAR- 3-1.2, INDORE/OUTDORE- 5-1.7 N MARKED FOR ANTIFOG
		WEIGHT	25gms.

TECHNICAL DATA SHEET

2	VITAL TEST COMPLIANCE	MECHANICAL HAZARD PROTECTION	<p>Resistance to Low Impact Energy of High Speed Particles at Extremes of Temperature: Withstands the impact of a 6mm nominal diameter steel ball, weighing 0.86 gm at a speed of 45 m/s. The impacts are carried out after conditioning the eyewear to temperatures of $(55 \pm 2) ^\circ\text{C}$ and $(-5 \pm 2) ^\circ\text{C}$</p>
		INCREASED ROBUSTNESS	Also withstands the impact of a 22mm nominal diameter, weighing 44gm. When dropped from a height of 1.27 – 1.31 mtrs.
		OPTICAL HAZARD PROTECTION	<ul style="list-style-type: none"> • 99.9% UV Protection Transmittance (280-380 nm) < 0.1% • Max spectral transmittance in UV-313nm of Clear Lens- 0.0003% • Max spectral transmittance in UV-365nm of Clear Lens- 10%
		RESISTANCE TO FOGGING	It remains free from fogging for a minimum of 08 seconds when tested as per standards.
		OPTICAL POWER	<p>Zero Power Lens Spherical Refractive Power within ± 0.06 Diopter Astigmatic Refractive Power within 0.06 Diopter</p>
		CORROSION RESISTANCE	No Corrosion observed on metal parts of Spectacle when tested as per CE & ANSI Standards
		FLAME RESISTANCE	Spectacle did not ignite when tested as per CE & ANSI Standards.