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CHEMICAL ENVIRONMENT USER'S CHOICE ES 009 (SMOKED)



CERTIFIED TO EN 166:2001 AND CONFORMS TO ANSI Z87.1 - 2010

1	GENERAL PARAMETERS	DESIGN	<ul style="list-style-type: none"> Comes with a unique wrap-around design A hardened anti-fog coated lens offers superior vision to prevent the building up of mist. Provides optimum protection against harmful UV radiation. Has a soft PVC shroud around the lens to ensure 100% sealing of the eyes against chemical and liquid splashes. The shroud has 4 ventilation caps, 2 on the top and 2 at the bottom of the frame. These are special one-way vents that allow air movement while keeping harmful liquid-splashes out. Has a fully adjustable elastic headband for a snug fit.
		APPLICATION	In chemical, pharmaceutical and paint industries; areas exposed to splashes of chemicals
		LENS COLOUR OPTIONS	Smoked
		LENS SCALE FOR SMOKED LENS	3-2.5 K 1 BT 9 0 CE
		OPTICAL HAZARD PROTECTION	99.9% UV Protection
		MATERIALS	Lens –Class 1 Polycarbonate Shroud – PVC
		OPTICAL CLASS	Class I
		COATINGS	Anti-scratch and anti-fog coated Polycarbonate lens
		WEIGHT	< 74 gms approx

2	VITAL TEST COMPLIANCE	MECHANICAL HAZARD PROTECTION	<p>Resistance to medium 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 120 m/s. The impacts are carried out after conditioning the eyewear to temperatures of $(55 \pm 2) ^\circ\text{C}$ and $(-5 \pm 2) ^\circ\text{C}$. Also withstands the impact of a 22mm nominal diameter, weighing 44gm. When dropped from a height of 1.27 – 1.31 mtrs. It provides the protection against molten metals & hot solids. Shroud provides the protection against droplets and splashes of liquids. Shroud provides the protection against large dust particles</p>
		HIGH MASS IMPACT	As per ANSI Z87.1 Standard a 500g projectile made of steel and shall have a 30° conical tip with a 3.18 mm spherical radius and have a diameter of 25 mm is dropped over the head-form, tip down, at the designated test height of 127 cm.
		INCREASED ROBUSTNESS	As per EN166 Standard steel ball when dropped from a height of 1.27 – 1.31 mtrs. Withstands the impact of 22 mm nominal diameter, weighing 44gm.
		PENETRATION TEST	As per ANSI Z87.1 standard, a pointed projectile 44.2g shall be freely dropped through the guide tube, point downward within a 20 mm circle centered in front of each eye of the headform, two on the left viewing area and two on the right viewing area.
		OPTICAL HAZARD PROTECTION	<p>Zero Power Lens: Spherical Refractive Power within ± 0.06 Diopter Astigmatic Refractive Power within 0.06 Diopter</p> <ul style="list-style-type: none"> 99.9% UV Protection: Transmittance (280-380 nm) < 0.1% Prismatic refractive power for clear & smoked Lens- horizontal base out ≤ 0.75 cm/m; base in ≤ 0.25 cm/m; Vertical ≤ 0.25 cm/m Max spectral transmittance in UV range : 280-315nm of Smoked Lens- 0.1% Luminous transmittance Luminous transmittance in visible spectra for Smoked Lens- 8%-18%
		RESISTANCE TO FOGGING	It remains free from fogging for a minimum of 08 seconds when tested as per standards.
		FLAME RESISTANCE TEST	Spectacle did not ignite when tested as per CE and ANSI standards.
		CORROSION RESISTANCE	No corrosion observed on metal parts of Spectacle when tested as per CE and ANSI Standards