

## EXECUTIVE CHOICE SAFETY SPECTACLE

SKU: **ES005**

### Key Features

- ▲ Has a clear lens
- ▲ Combines safety with a fashionable look, enhancing user compliance
- ▲ Equipped with flexible and soft PVC nose pad
- ▲ Tested at elevated temperatures, resistant to corrosion, resistant to ignition and optically tested
- ▲ Adjustable temple length within a range of 14mm to customize the fit on the user's head
- ▲ Equipped with specially designed flexible soft nose pad to provide extra comfort
- ▲ Tested for disinfection and increased robustness
- ▲ Smoked lens model also provides optimum protection against harmful UV radiation

### Certification:

EN 166:2001, EN 167:2002, EN 172:1994+A1:2000 & A2:2001, EN 168:2002, IS 5983:1980, ANSI Z 87.1-2020

|                    |                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------|
| Weight             | 26gms                                                                                       |
| Material of Lens   | High impact resistant optical class I Polycarbonate hard-coated lens for scratch resistance |
| Lens Scale No.     | Clear: 3-1.2, Smoked: 5-3.1                                                                 |
| Best Before        | 5 years from the date of manufacturing                                                      |
| Variants           | Clear antifog, Smoked, Amber                                                                |
| Lens Shade Options | Clear, Clear antifog, Smoked                                                                |



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# EXECUTIVE CHOICE SAFETY SPECTACLES ES 005 (CLEAR/CLEAR ANTIFOG)



CERTIFIED TO EN 166:2001, CONFORMS TO ANSI Z 87.1-2010

|   |                          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|--------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GENERAL<br>PARAMETERS    | DESIGN                             | <ul style="list-style-type: none"> <li>• Wrap-around design for better coverage.</li> <li>• Adjustable temple length within a range of 14mm to customize the fit on the user's head.</li> <li>• Provides optimum protection against harmful UV radiation.</li> </ul>                                                                                                                                                                   |
|   |                          | APPLICATION                        | <ul style="list-style-type: none"> <li>• Construction sites: areas where sand and large dust/flying particles are blowing at a high speed.</li> <li>• Metal – processing shops.</li> </ul>                                                                                                                                                                                                                                             |
|   |                          | LENS OPTIONS                       | Clear /Clear Antifog                                                                                                                                                                                                                                                                                                                                                                                                                   |
|   |                          | MECHANICAL<br>HAZARD<br>PROTECTION | Frontal, lateral impact resistance<br>Lateral Protection                                                                                                                                                                                                                                                                                                                                                                               |
|   |                          | OPTICAL<br>HAZARD<br>PROTECTION    | 99.9% UV Protection                                                                                                                                                                                                                                                                                                                                                                                                                    |
|   |                          | MATERIALS                          | Lens – Class 1 Polycarbonate<br>Frame – Nylon                                                                                                                                                                                                                                                                                                                                                                                          |
|   |                          | OPTICAL<br>CLASS                   | Class 1                                                                                                                                                                                                                                                                                                                                                                                                                                |
|   |                          | LENS SCALE<br>FOR<br>CLEAR LENS    | 3-1.2 K1FT0CE                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   |                          | COATINGS                           | Hard coated for scratch resistant, Antifog                                                                                                                                                                                                                                                                                                                                                                                             |
|   |                          | WEIGHT                             | < 26 gms approx.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2 | VITAL TEST<br>COMPLIANCE | MECHANICAL<br>HAZARD<br>PROTECTION | <p><b>Resistance to low impact energy of high speed particles at extremes of temperature:</b></p> <p>Withstands the impact of a 6mm nominal diameter steel ball, weighing 0.86 gm at a speed of 45 m/s (as per EN 166:2001) and 50.9m/s (as per ANSI Z87.1)</p> <p>The impacts are carried out after conditioning the eyewear to temperatures of <math>(55 \pm 2) ^\circ\text{C}</math> and <math>(-5 \pm 2) ^\circ\text{C}</math></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      | Also withstands the impact of 22 mm nominal diameter, weighing 44gm. When dropped from a height of 1.27 – 1.31 meters                                                                                                                                       |
| 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 head form, two on the left viewing area and two on the right viewing area. |
| OPTICAL HAZARD PROTECTION | 99.9% UV protection<br>Transmittance (280-380 nm) < 0.1%                                                                                                                                                                                                    |
| OPTICAL PROPERTIES        | Spherical refractive power of clear lens within $\pm 0.06$ m-1                                                                                                                                                                                              |
|                           | Astigmatic refractive power of clear lens $\pm 0.06$ m-1                                                                                                                                                                                                    |
|                           | Prismatic refractive power for clear & smoked lens- horizontal base Out $\leq 0.75$ cm/m; Base in $\leq 0.25$ cm/m; Vertical $\leq 0.25$ cm/m                                                                                                               |
|                           | Max spectral transmittance in UV-313nm of Clear lens- 0.0003%                                                                                                                                                                                               |
|                           | Max spectral transmittance in UV-365nm of Clear lens- 0.1%                                                                                                                                                                                                  |
| HAZE                      | Luminous transmittance in visible spectra of Clear Lens- 74.4-100% (as per EN 166:2001), 85-100% (As per ANSI Z87.1)                                                                                                                                        |
|                           | As per ANSI Z87.1 Standard Clear Plano lenses shall not exhibit more than 3% haze                                                                                                                                                                           |
| CORROSION RESISTANCE      | No corrosion observed on metal parts of spectacle when tested as per CE and ANSI Standards.                                                                                                                                                                 |
| FLAME RESISTANCE          | Spectacle did not ignite when tested as per CE and ANSI standards.                                                                                                                                                                                          |



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## EXECUTIVE CHOICE SAFETY SPECTACLES ES 005 (SMOKED)



CERTIFIED TO EN 166:2001, EN 167:2002, EN 172:1994+A1:2000, EN 168:2002; CONFORMS TO ANSI Z 87.1-2010

|   |                       |                              |                                                                                                                                                                                                                                                                                                                                                                                    |
|---|-----------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                       | DESIGN                       | <ul style="list-style-type: none"> <li>Extremely lightweight Spectacles</li> <li>Wrap-around design for better coverage.</li> <li>Adjustable temple length within a range of 14mm to customize the fit on the user's head.</li> <li>Provides optimum protection against harmful UV radiation.</li> </ul>                                                                           |
|   |                       | APPLICATION                  | <ul style="list-style-type: none"> <li>Construction sites: areas where sand and large dust/flying particles are blowing at a high speed.</li> <li>Metal – processing shops.</li> </ul>                                                                                                                                                                                             |
|   |                       | LENS COLOUR OPTIONS          | Smoked /Antifog                                                                                                                                                                                                                                                                                                                                                                    |
|   |                       | MECHANICAL HAZARD PROTECTION | Frontal, lateral impact resistance<br>Lateral Protection                                                                                                                                                                                                                                                                                                                           |
|   |                       | OPTICAL HAZARD PROTECTION    | 99.9% UV Protection                                                                                                                                                                                                                                                                                                                                                                |
|   |                       | MATERIALS                    | Lens – Class 1 Polycarbonate<br>Frame – Nylon                                                                                                                                                                                                                                                                                                                                      |
|   |                       | OPTICAL CLASS                | Class 1                                                                                                                                                                                                                                                                                                                                                                            |
|   |                       | LENS SCALE FOR CLEAR LENS    | 3-1.2                                                                                                                                                                                                                                                                                                                                                                              |
|   |                       | LENS SCALE FOR SMOKED LENS   | 5-3.1                                                                                                                                                                                                                                                                                                                                                                              |
|   |                       | COATINGS                     | Hard coated for scratch resistant, Antifog                                                                                                                                                                                                                                                                                                                                         |
| 2 | VITAL TEST COMPLIANCE | WEIGHT                       | < 26 gms approx.                                                                                                                                                                                                                                                                                                                                                                   |
|   |                       | MECHANICAL HAZARD PROTECTION | <p><b>Resistance to low impact energy of high speed particles at extremes of temperature:</b></p> <p>Withstands the impact of a 6mm nominal diameter steel ball, weighing 0.86 gm at a speed of 45 m/s.</p> <p>The impacts are carried out after conditioning the eyewear to temperatures of <math>(55 \pm 2) ^\circ\text{C}</math> and <math>(-5 \pm 2) ^\circ\text{C}</math></p> |

|  |  |                           |                                                                                                                                               |
|--|--|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | INCREASED ROBUSTNESS      | Also withstands the impact of 22 mm nominal diameter, weighing 44gm. When dropped from a height of 1.27 – 1.31 mtrs.                          |
|  |  | OPTICAL HAZARD PROTECTION | 99.9% UV protection<br>Transmittance (280-380 nm) < 0.1%                                                                                      |
|  |  | OPTICAL PROPERTIES        | Spherical refractive power of clear lens within $\pm 0.06$ m-1                                                                                |
|  |  |                           | Astigmatic refractive power of clear lens $\pm 0.06$ m-1                                                                                      |
|  |  |                           | Prismatic refractive power for clear & smoked lens- horizontal base Out $\leq 0.75$ cm/m; Base in $\leq 0.25$ cm/m; Vertical $\leq 0.25$ cm/m |
|  |  |                           | Max spectral transmittance in UV range : 280-315nm of Smoked Lens- 0.1%                                                                       |
|  |  |                           | Luminous transmittance in visible spectra of Clear Lens- 74.4-100% & for Smoked Lens- 17.8-29.1%                                              |
|  |  | CORROSION RESISTANCE      | No Corrosion observed on metal parts of Spectacle when tested as per relevant standards.                                                      |
|  |  | FLAME RESISTANCE          | Spectacle did not ignited when tested as per relevant Standards.                                                                              |

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