

# LENTES EVEREST



## Descripción:

Antiparras para protección visual en policarbonato, utilizados como protección primaria de acuerdo a recomendaciones OHSAS. Apto para trabajos en exteriores e interiores, diseñados para proteger contra impactos a alta y baja velocidad. Tintes de acuerdo a requerimientos de ANSI Z87.1 2010. Adecuados para proteger contra rayos ultravioleta y espectros de baja concentración.

## Características:

- Visor de policarbonato oftálmico de alta transparencia.
- Diseño para visión periférica.
- Fabricados en policarbonato oftálmico.
- Diseño aerodinámico.
- Permite el uso de lentes ópticos.
- Banda elástica regulable para un mejor ajuste al rostro.
- Tratamiento Anti-Rayadura:
- Policarbonato siliconado resistente a la abrasión.
- Tratamiento de Filtro UV: Filtran el 100% de los rayos ultravioleta.
- Tratamiento de Anti-Empaño:
- Tratamiento Anti-Fog ideal para el trabajo en ambientes húmedos.
- Marco: PVC y TPR Siliconado
- Banda: Elástica

## Certificaciones:

- Norma ANSI Z87.1. 2015
- Modelo Everest (EF18).

**STEELPRO**  
**SAFETY**®

## Aplicaciones:

- Faenas de minería.
- Construcción.
- Forestales.
- Aserradores.
- Agricultura.
- Industria en general.

| Fabricante                   | VIC        | VICSA   |
|------------------------------|------------|---|
| Norma Utilizada              | Z87        | ANSI Z87.1 2015   |
| Resistencia Impacto          |            | Prueba alto impacto                                     |
| Filtro Infrarrojo            | R1.3 - R10 | Grados de protección contra radiación infrarroja        |
| Filtro UV                    | U2 - U6    | Todos nuestros lentes cumplen nivel máximo U6           |
| Transmisión Filtro Soldadura | W1.3 - W14 | Este lente no cuenta con este filtro                    |
| Filtro de Luz Visible        | L1.3 - L10 | Niveles luz visible que se transmite a través del lente |
| Tinte Variable               | V          | Identifica lentes fotocromáticos                        |
| Uso Especial                 | S          | Lentes tintados ej.: gris, ámbar, etc.                  |
| Salpicaduras                 | D3         | Protección contra salpicaduras                          |
| Polvo                        | D4         | Protección contra polvo                                 |
| Polvo Fino                   | D5         | Protección contra polvo fino                            |

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Test Report T11573-01-1 Issue 1  
ANSI/ISEA Z87.1-2015  
Day Sun Industrial Corp  
EF18 Goggles  
24 March 2017



Approved by:

Keith E. Whitten  
Laboratory Manager

Prepared by:

Cathy Woloszyn  
Lab Administrator

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Ximen Rd., North Dist.  
Tainan City 70448  
Taiwan (R.O.C.)

Date: 24 March 2017  
Report: T11573-01-1  
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**Objective:**

Contract testing to ANSI/ISEA Z87.1-2015 "American National Standard for Occupational and Educational Personal Eye and Face Protection Devices".

Clause(s): 5. General Requirements  
-excluding Markings  
6. Impact Protector Requirements

**Samples:**

EF18 Goggles

| Lens  | Quantity | Sample ID |
|-------|----------|-----------|
| Clear | 12       | 3A        |

Date(s) submitted: 15 March 2017

**Procedures:**

Testing protocols in accord with good laboratory practice were employed for all tests.

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

Testing procedures as specified within Section 9 of ANSI/ISEA Z87.1-2015 were followed unless noted in results.

When applicable, samples were assessed on medium headform (64mm PD).

Prismatic Power, Refractive Power, and Resolving Power are a function of lens geometry, not tint, therefore these tests were performed only on one tint variant of each lens type.

**Assessment Summary:**

Date(s) tested: 22 through 24 March 2017

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2015 for Impact Rated Goggles with Indirect Ventilation.





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### Assessment Summary-Continued:

| ANSI/SEA Z87.1-2015 Requirements  | Compliant | Non-Compliant       |
|---|-----------|---------------------|
| 5. General Requirements   |           |                     |
| 5.1 Optical Requirements  |           |                     |
| 5.1.1 Optical Quality   | X         |                     |
| 5.1.2 Luminous Transmission (Clear Lenses)  | X         |                     |
| 5.1.3 Haze - Clear Lenses Only  | X         |                     |
| 5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors      | X         |                     |
| 5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance for Prescription Protectors and Magnifiers |           | Not applicable      |
| 5.2 Physical Requirements   | X         |                     |
| 5.2.1 Drop Ball Impact Resistance   |           | Not applicable      |
| 5.2.2 Ignition  | X         |                     |
| 5.2.3 Corrosion Resistance of Metal Components  |           | Not applicable      |
| 5.2.4 Minimum Coverage Area   | X         |                     |
| 5.3 Markings  |           | Not assessed        |
| 5.4 Other Requirements  |           |                     |
| 5.4.1 Vented Goggles  |           | Not applicable      |
| 5.4.1.1 Direct Ventilation  |           | Not applicable      |
| 5.4.1.2 Indirect Ventilation  | X         |                     |
| 5.4.2 Screen Windows and Screen Lenses  |           | Not applicable      |
| 5.4.3 Welding Protectors  |           | Not applicable      |
| 5.4.4 Frames for Removable Lenses   |           | Not applicable      |
| 5.4.5 Minimum Lens Thickness for Prescription Spectacles  |           | Not applicable      |
| 5.5 Replaceable Lenses  |           | Not applicable      |
| 5.6 Aftermarket Components and Accessories  |           | Not applicable      |
| 6. Impact-Rated Protector Requirements  |           |                     |
| 6.1 General   |           |                     |
| 6.1.1 Protectors Marked for Impact Protection   |           |                     |
| 6.1.2 Frames and Shells   |           | See 6.2.2 and 6.2.3 |
| 6.1.3 Lateral (Side) Coverage   | X         |                     |
| 6.2 Impact Requirements   |           |                     |
| 6.2.1 Protector Acceptance Criteria   |           |                     |
| 6.2.2 High Mass Impact  | X         |                     |
| 6.2.3 High Velocity Impact  | X         |                     |
| 6.2.4 Penetration Test (Lens Only)  | X         |                     |
| 6.2.5 Prescription Lens Material Qualification  |           | Not applicable      |
| 6.2.6 Prescription Lens Mounting Qualification  |           | Not applicable      |
| 6.2.7 Devices with Lift Fronts  |           | Not applicable      |





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**Results:**

**5.1.1 Optical Quality; Result: Pass**

Lenses are free of striae, bubbles, waves and other visible defects which would impair their optical quality.

**5.1.2 Luminous Transmission (Clear Lenses)**

| Sample ID    | Left (%)               | Right (%) | Left/Right | Pass | Fail |
|--------------|------------------------|-----------|------------|------|------|
| 3A-2         | 91.5                   | 91.2      | 1.003      | X    |      |
| Requirement: | $100 \geq T_L \geq 85$ |           | N/A        |      |      |

**5.1.3 Haze - Clear Lens Only**

| Sample ID    | Left (%) | Right (%) | Pass | Fail |
|--------------|----------|-----------|------|------|
| 3A-2         | 0.23     | 0.21      | X    |      |
| Requirement: | $\leq 3$ |           |      |      |

Illuminate C used instead of Illuminate A.

**5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors**

**Refractive Power & Astigmatism**

| Sample ID    | Left ( $m^{-1}$ ) |             | Right ( $m^{-1}$ ) |             | Pass | Fail |
|--------------|-------------------|-------------|--------------------|-------------|------|------|
|              | Refractive Power  | Astigmatism | Refractive Power   | Astigmatism |      |      |
| 3A-1         | -0.02             | 0.02        | -0.03              | 0.03        | X    |      |
| Requirement: | $+/- 0.06$        | $\leq 0.06$ | $+/- 0.06$         | $\leq 0.06$ |      |      |

Tested in a simulated as worn position using a 19mm aperture.

**Resolving Power**

| Sample ID    | Left       | Right | Pass | Fail |
|--------------|------------|-------|------|------|
| 3A-1         | 20         | 20    | X    |      |
| Requirement: | Pattern 20 |       |      |      |

Tested in a simulated as worn position using a 19mm aperture.

**Prism and Prism Imbalance**

| Sample ID    | Prismatic Power ( $cm/m$ ) |       | Vertical Imbalance( $cm/m$ ) | Horizontal Imbalance( $cm/m$ )               | Pass | Fail |
|--------------|----------------------------|-------|------------------------------|--|------|------|
|              | Left                       | Right |                              |  |      |      |
| 3A-1         | 0.18                       | 0.13  | <0.05                        | 0.21 Base Out                                | X    |      |
| Requirement: | $\leq 0.25$                |       | $\leq 0.125$                 | Base Out $\leq 0.50$<br>Base In $\leq 0.125$ |      |      |



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**5.2 Physical Requirements; Results: Pass**

Protectors are free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

**5.2.1 Drop Ball Impact Resistance**

Protectors meeting the requirements of 6.2 are exempt from drop ball impact testing

**5.2.2 Ignition; Result: Pass**

Lens, Outrigger, Strap Adjuster and Housing did not ignite or continue to glow once the rod was removed.

**5.2.4 Minimum Coverage Area; Result: Pass**

The frames, lens housings or carriers and lens(es) cover in plane view an area of not less than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) in front of each eye, centered on the geometrical center of the lens.

**5.4.1.2 Indirect Ventilation; Result: Pass**

Ventilation is considered to be indirect and there is no direct, straight-line passage from the exterior to the interior of the goggle.

**6.1.1 Protectors Marked for Impact Protection**

Protectors and replaceable components marked for impact protection in accordance with Table 3 shall meet applicable requirements of Section 6.

**6.1.2 Frames and Shells:**

Frames and shells shall meet the requirements for high mass impact and high velocity impact in order to be impact-rated. These components shall be tested as a complete device. For frames and shells to be used with prescription lenses, they shall be fitted with representative test lenses having a nominal plano power and an minimum lens thickness to be used by the manufacturer, in no case less than 2.0mm (0.079in). Frames and shells are exempt from the penetration requirement.

**6.1.3 Lateral (Side) Coverage; Result: Pass**

When mounted on the medium headform protectors provide continuous lateral coverage (i.e. no openings greater than 1.5mm (0.06 in.) in diameter) from the vertical plane of the lenses tangential to a point not less than 10 mm (0.394 in.) posterior to the corneal plane and not less than 10 mm (0.394 in.) in height above and not less than 10 mm (0.394in.) in height below the horizontal plane centered on the eyes of the headform. The probe does not contact the headform within the defined coverage area.

**6.2.1 Protector Acceptance Criteria**

When each type test is conducted as indicated in Sections 6.2.2, 6.2.3 and 6.2.4 and, as applicable Section 6.2.6, a complete device shall fail if any of the following occurs:

- any part, fragment or material visible to the unaided eye becomes detached from the inner surface of any complete device, as determined by inspection of the device or of the contact paste;
- fracture;
- penetration of the inner surface either by the projectile passing completely through the lens, frame or housing component, or by rupture of the inner lens surface;
- lens not retained;
- for the high-velocity test, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or complete device.

In the case of plano protectors with a prescription lens carrier, contact of the prescription lens carrier with the headform does not constitute a failure.





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#### 6.2.2 High Mass Impact

| Sample ID | Location | Pass | Fail |
|-----------|----------|------|------|
| 3A-3      | Right    | X    |      |
| 3A-4      | Left     | X    |      |
| 3A-5      | Right    | X    |      |
| 3A-6      | Left     | X    |      |

#### 6.2.3 High Velocity Impact

| Sample ID | Location         | Velocity (ft/sec) | Pass | Fail |
|-----------|------------------|-------------------|------|------|
| 3A-7      | Right 0°         | 255               | X    |      |
| 3A-8      | Right 30°        | 255               | X    |      |
| 3A-9      | Right 90° ↑ 10mm | 255               | X    |      |
| 3A-10     | Left 0°          | 255               | X    |      |
| 3A-11     | Left 30°         | 255               | X    |      |
| 3A-12     | Left 90° ↓ 10mm  | 255               | X    |      |

#### 6.2.4 Penetration Test (Lenses Only)

| Sample ID | Location | Pass | Fail |
|-----------|----------|------|------|
| 3A-3      | Left     | X    |      |
| 3A-4      | Right    | X    |      |
| 3A-5      | Left     | X    |      |
| 3A-6      | Right    | X    |      |

#### Sample Photograph:



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