

GAFA DE SEGURIDAD LENTE CLARO "KOLAROV"

- **Descripción:** Gafa de seguridad lente claro "KOLAROV"
- **Marca:** Creattor
- **Presentación comercial:** Par de gafas.
- **Fabricación:** Producto importado.



Descripción del producto

Lentes para protección visual en policarbonato, utilizados como protección primaria de acuerdo a recomendaciones de OSHA.

Características del producto

- Aptos para trabajos en exteriores e interiores, diseñados para proteger contra impactos a alta y baja velocidad.
- Resistente a impactos, abrasión y salpicadura de líquidos irritantes.
- Diseño deportivo.
- Visión periférica.
- CERTIFICACIONES ANSI Z87.1 + Europa EN 166.

| PROPIEDADES FISICAS | LIMITE SUPERIOR ESPECIFICACIONES | OBJETIVO | LIMITE INFERIOR ESPECIFICACIONES |
|---|----------------------------------|-------------------------------|----------------------------------|
| Espesor de la lente | 2,1 | 2,0 | 2,0 |
| Base de lente de protección lateral (base curva) | N/A | N/A | N/A |
| Base de lente óptica (base curva) | N/A | 9,25C | N/A |
| Peso (g) | 24,4 | 24 | 23,6 |
| Tamaño de la lente (vertical) (mm.) | 47 | 46 | 45 |
| Tamaño de la lente (diagonal) (mm.) | 97 | 96 | 95 |
| Distancia interpupilar (mm.) | N/A | 64 | N/A |
| Forma ocular (bisagra-bisagra) (mm.) | 137 | 138 | 135 |
| Longitud de la patilla (lente a punta) (mm) | 121 | 120 | 119 |
| Análisis óptico: tasa de transmisión(%) para lente transparente | 100 | 88 | 85 |
| Análisis óptica - Velocidad de transmisión (%) para lente ahumada | 10,5 | 10 | 8 |
| Análisis óptico - Valor UV | N/A | 380 | N/A |
| Óptica - Analizador de espejos,Prizm poder, Horizontal, L&R | N/A | 0,5 - ,25 | N/A |
| Vertical, L&R | | | |
| Prueba de alto impacto (lente, montura, templos) L&R | N/A | ALTA VELOCIDAD (150 FT / 5) | N/A |
| Prueba de penetración | N/A | CUMPLE | N/A |



Especificaciones del producto

- Lentes ópticamente aclarados y modificados para visión neutra.
- Lentes con tratamiento anti rayadura y recubiertos con filtro UV.
- Visor de policarbonato oftálmico de alta transparencia, con protectores laterales.
- Patillas retráctiles de ajuste de 4 posiciones.
- Marco de PVC Flexible.
- Lentes sin tratamiento antiempañante.

Aplicaciones

Metalmecánica, Farmacéutica, Aserraderos, Minería, Construcción, Forestal, Agricultura, Industria en general, Alimenticia, Química.

Condiciones de Almacenamiento

- Humedad relativa máxima: 70%
- Temperatura máxima: 32°C
- Almacenar en un lugar fresco y seco, evitando los rayos directos del sol.
- Inadecuadas condiciones de almacenamiento, carga y descarga brutal probablemente afectasen la calidad de los productos.

Disposición Final

- En caso de que el producto se encuentre contaminado con residuos, colóquelo en el respectivo contenedor según cual sea la sustancia o material.
- Los empaques contenedores deberán ser depositada en el contenedor correspondiente a residuos reciclables, en caso que esta se encuentre contaminada por alguna sustancia o material, deséchela en el mismo contenedor donde se depositen estas sustancias.

GARANTIA LIMITADA

CREATTOR garantiza que sus productos están libres de defectos en los materiales y en la mano de obra. Un producto sujeto a un reclamo de garantía se debe poner primero a disposición de un distribuidor CREATTOR autorizado o del vendedor a través del cual se ha adquirido el producto.





Test Report T5015-01-1 Issue 1
EN 166:2001
Fu Sheng Optical Industry Co., Ltd.
B105 Spectacles
07 October 2009



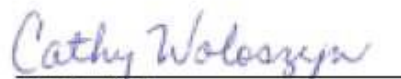
Certificate 1722.01

Approved by:



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Laboratory Manager

Prepared by:



Cathy Woloszyn
Laboratory Assistant

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"KOLAROV"

www.creator.com.co

REF: C20182112



Objective:

Contract testing to EN 166:2001, "Personal Eye Protection - Specifications".

- Clauses: 7.1 Basic requirements
7.2.1.4 Protection against optical radiation, Sunglare filters for industrial use (EN 172+A2:2001) (*Smoke*)
7.2.2 Protection against high-speed particles – Low, medium or high energy impact (F)

Samples:

B105 Spectacles

| Ocular Variant | Qty | Sample ID |
|----------------|-----|-----------|
| Clear | 30 | 5A-x |
| Smoke | 30 | 5B-x |

Date submitted: 16 September 2009

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests. All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Testing procedures were followed as specified within:

- EN 167:2001 "Personal eye-protection - Optical test methods"
- EN 168:2001 "Personal eye-protection - Non-optical test methods"

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

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

Variation in luminous transmittance- P1 and P2. The actual variation is compared to the specification. If the actual variation does not meet the specification, then the corrected variation is used. The corrected variation is calculated from the difference between the theoretical and actual variation. The theoretical values are determined by applying Beer-Lambert's Law to the known thickness variation of the lens. Lens has a 51 mm vertical depth therefore 40 mm area measured.



Assessment summary:

Dates tested: 25 September through 01 October 2009

| EN 166 Requirement | Compliant | Non-Compliant |
|--|-----------------|----------------|
| 6 Design and manufacture | | |
| 6.1 General construction | X | |
| 6.2 Materials | | Not assessed |
| 6.3 Headbands | | Not applicable |
| 7.1 Basic requirements | | |
| 7.1.1 Field of vision | X | |
| 7.1.2 Optical requirements | | |
| 7.1.2.1 Spherical, astigmatic, and prismatic refractive powers | Optical Class 1 | |
| 7.1.2.2 Transmittance | | |
| 7.1.2.2.1 Oculars without filtering action | X | |
| 7.1.2.2.2 Oculars with filtering action | | See 7.2.1 |
| 7.1.2.2.3 Variations in transmittance | X | |
| 7.1.2.3 Diffusion of light | X | |
| 7.1.3 Quality of material and surface | X | |
| 7.1.4 Robustness | | |
| 7.1.4.1 Minimum robustness | | Not applicable |
| 7.1.4.2 Increased robustness | X | |
| 7.1.5 Resistance to Ageing | | |
| 7.1.5.1 Stability at elevated temperatures | X | |
| 7.1.5.2 Resistance to ultraviolet radiation (oculars only) | X | |
| 7.1.6 Resistance to corrosion | | Not applicable |
| 7.1.7 Resistance to ignition | X | |
| 7.2 Particular requirements (Optional) | | |
| 7.2.1 Protection against optical radiation | | |
| 7.2.1.4 Sunglare filters for industrial use (EN172) <i>Smoke</i> | X | |
| 7.2.2 Protection against high speed particles (F) | X | |
| 7.2.8 Lateral Protection | X | |
| 7.3 Optional requirements | | |
| 9 Marking | | Not assessed |
| 10 Information supplied by the manufacturer | | Not assessed |

Samples as assessed meet the requirements of EN166:2001 and as a result of this assessment the following markings are suggested:

| Ocular Variant | Filter Type | Filter Scale | Ocular Marking | Frame Marking |
|----------------|--------------|--------------|-----------------------------|-------------------|
| Clear | Not a filter | N/A | CE 'mfg' 1 F | CE 'mfg' EN 166 F |
| Smoke | Sunglare | 5-3.1 | CE 'filter scale' 'mfg' 1 F | |

Results:

6.1 General construction; Result: Pass

Samples were assessed and found to be free from projections, sharp edges or other defects that are likely to cause discomfort or injury.

7.1.1 Field of view; Result: Pass

Samples assessed and a 22mm(W) x 20mm(H) ellipse could be described in full for each eye (64mm pupil distance)

7.1.2.1 Refractive powers

Spherical and astigmatic powers

| Sample ID | Left Ocular | | Right Ocular | | Optical Class Met |
|------------------|------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------|
| | Spherical Power (m ⁻¹) | Astigmatic Power (m ⁻¹) | Spherical Power (m ⁻¹) | Astigmatic Power (m ⁻¹) | |
| 5A-1 | 0.00 | 0.02 | 0.00 | 0.02 | 1 |
| 5A-2 | 0.00 | 0.02 | -0.01 | 0.01 | 1 |
| 5A-3 | -0.01 | 0.01 | -0.01 | 0.03 | 1 |
| Specification | | | | | |
| Optical Class 1: | +/- 0.06 | ≤ 0.06 | +/- 0.06 | ≤ 0.06 | |
| Optical Class 2: | +/- 0.12 | ≤ 0.12 | +/- 0.12 | ≤ 0.12 | |
| Optical Class 3: | + 0.12 /- 0.25 | ≤ 0.25 | + 0.12 /- 0.25 | ≤ 0.25 | |



7.1.2.2.3 Variations in transmittance [filtering]

Smoke

| Sample ID: | 5B-4 | | 5B-5 | | 5B-6 | | Specification |
|-----------------|------|-------|------|-------|------|-------|---------------|
| Ocular: | Left | Right | Left | Right | Left | Right | |
| Maximum %T: | 10.5 | 10.0 | 10.5 | 10.0 | 10.4 | 9.8 | |
| Center %T: | 9.9 | 9.8 | 9.9 | 9.7 | 9.8 | 9.5 | |
| Minimum %T: | 9.7 | 9.6 | 9.6 | 9.5 | 9.5 | 9.4 | |
| Actual P1 & P2: | 6.1 | 2.6 | 6.0 | 3.2 | 6.6 | 3.1 | ± 10 % |
| P3: | 1.5 | | 2.0 | | 2.3 | | ± 20% |
| Pass/Fail: | Pass | | | | | | |

7.1.2.3 Diffusion of light

| Sample ID | Measured Value (cd/m ² /lx) | Pass | Fail |
|----------------|---|------|------|
| <i>Clear</i> | | | |
| 5A-4 | 0.06 | X | |
| 5A-5 | 0.04 | X | |
| 5A-6 | 0.17 | X | |
| <i>Smoke</i> | | | |
| 5B-4 | 0.08 | X | |
| 5B-5 | 0.08 | X | |
| 5B-6 | 0.06 | X | |
| Specification: | ≤ 0.75 | | |

7.1.3 Quality of material and surface; Result: Pass

Samples assessed were found to be free of any optical defects that could impair vision.

7.1.5.2 Resistance to ultraviolet radiation - Transmittance

| Sample ID | Before (%T) | After (%T) | Relative Change (%) | Pass | Fail |
|----------------|----------------|---------------|------------------------|------|------|
| <i>Clear</i> | | | | | |
| 5A-4 | 91.1 | 90.8 | -0.3 | X | |
| 5A-5 | 90.9 | 90.7 | -0.2 | X | |
| 5A-6 | 91.2 | 90.8 | -0.4 | X | |
| Specification: | | | ±5 | | |
| <i>Smoke</i> | | | | | |
| 5B-4 | 9.80 | 9.68 | -1.2 | X | |
| 5B-5 | 9.90 | 9.90 | 0.0 | X | |
| 5B-6 | 9.50 | 9.51 | 0.1 | X | |
| Specification: | | | ±5 | | |



7.1.5.2 Resistance to ultraviolet radiation – Diffusion of Light

| Sample ID | Measured Value (cd/m ² /lx) | Pass | Fail |
|----------------|--|------|------|
| <i>Clear</i> | | | |
| 5A-4 | 0.09 | X | |
| 5A-5 | 0.07 | X | |
| 5A-6 | 0.07 | X | |
| <i>Smoke</i> | | | |
| 5B-4 | 0.15 | X | |
| 5B-5 | 0.14 | X | |
| 5B-6 | 0.11 | X | |
| Specification: | ≤ 0.75 | | |

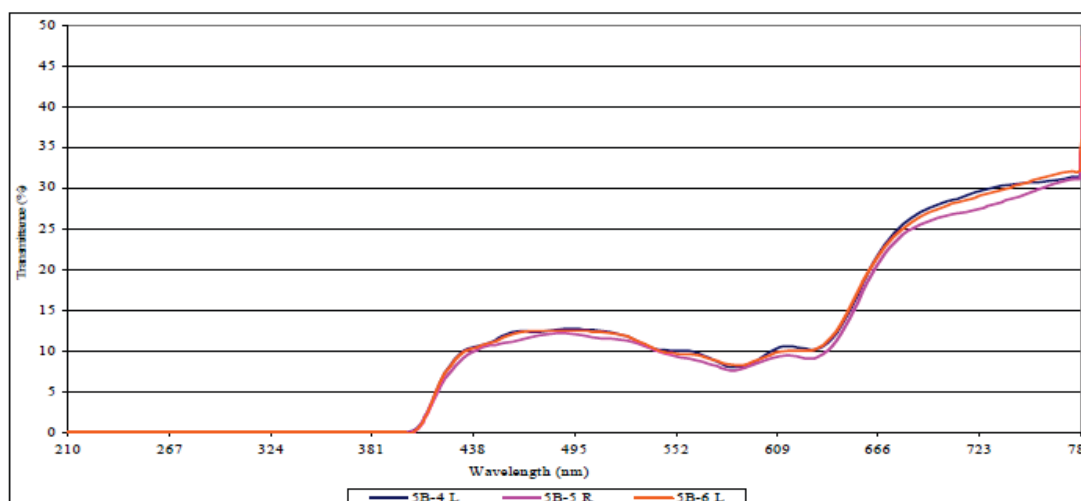
7.1.7 Resistance to ignition; Result: Pass

Samples did not ignite or continue to glow after removal of the steel rod.

7.2.1.4 Protection against optical radiation - Sunglare filters for industrial use (EN 172)

Smoke

| Sample ID: | 5B-4 | 5B-5 | 5B-6 | Specification Scale Number 5-3.1 |
|---|-------|-------|-------|----------------------------------|
| Luminous (Tv) | 10.5 | 9.9 | 10.4 | 8.0 to 17.8 % |
| Max. 280 to 315nm | <1E-4 | <1E-4 | <1E-4 | ≤ 0.01 Tv |
| Max. 315 to 350nm | <1E-4 | <1E-4 | <1E-4 | ≤ 0.5 Tv |
| Mean 315 to 380nm | <1E-4 | <1E-4 | <1E-4 | ≤ 0.5 Tv |
| Requirements for "Driving and Road Use: | | | | |
| Luminous (Tv) | 10.5 | 9.9 | 10.4 | ≥ 8.0% |
| Min. 500 to 650nm | 8.0 | 7.7 | 8.3 | ≥ 0.2 Tv |
| Attenuation Quotients: | | | | |
| Red Signal | 1.08 | 1.06 | 1.08 | ≥ 0.8 |
| Yellow Signal | 0.96 | 0.95 | 0.96 | |
| Green Signal | 1.04 | 1.04 | 1.04 | |
| Blue Signal | 1.19 | 1.20 | 1.19 | |
| Scale number met | 5-3.1 | | | |



7.2.2 Protection against high-speed particles

| Sample ID | Location | Velocity (m/s) | Pass | Fail |
|--------------|-------------------|----------------|------|------|
| <i>Clear</i> | | | | |
| 5A-19 | Left Frontal (1) | 46.3 | X | |
| 5A-20 | | 46.3 | X | |
| 5A-21 | | 46.6 | X | |
| 5A-22 | | 46.3 | X | |
| 5A-23 | Right Frontal (2) | 46.6 | X | |
| 5A-24 | | 46.3 | X | |
| 5A-25 | | 46.6 | X | |
| 5A-26 | | 46.0 | X | |
| 5A-27 | Left Lateral (3) | 46.6 | X | |
| 5A-28 | | 46.3 | X | |
| 5A-29 | Right Lateral (4) | 46.3 | X | |
| 5A-30 | | 46.3 | X | |
| <i>Smoke</i> | | | | |
| 5B-19 | Left Frontal (1) | 46.3 | X | |
| 5B-20 | | 46.6 | X | |
| 5B-21 | | 46.6 | X | |
| 5B-22 | | 46.3 | X | |
| 5B-23 | Right Frontal (2) | 46.6 | X | |
| 5B-24 | | 46.6 | X | |
| 5B-25 | | 46.6 | X | |
| 5B-26 | | 46.0 | X | |
| 5B-27 | Left Lateral (3) | 46.3 | X | |
| 5B-28 | | 45.7 | X | |
| 5B-29 | Right Lateral (4) | 46.0 | X | |
| 5B-30 | | 46.6 | X | |

7.2.8 Lateral protection; Result: Pass

Samples prevent the tip of a 2mm rod from touching the lateral impact regions of the headform.

Sample photographs:





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- Test reports are valid for certification purposes for one year from date of issue, inclusive of retest or variant additions which must be performed within one year of date of issue to avoid full retest.
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- Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
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- In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
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