

GAFAS DE SEGURIDAD LENTE CLARO "CAPONE"

Descripción: Gafa de seguridad lente claro "CAPONE"

Marca: Creattor

Presentación comercial: Par de gafas.

Fabricación: Producto importado.



Descripción del producto

Gafas de protección con estilo deportivo que provee un buen ajuste a la cara del usuario promoviendo el cumplimiento de uso. Esto evita la filtración de rayos ultravioleta y reduce el riesgo de penetración de partículas que pueden impactar los ojos. Gafas con antiempañante.

Características del producto

CERTIFICACIONES ANSI Z87.1 + Europa EN 166

PROPIEDADES FÍSICAS	LIMITE SUPERIOR ESPECIFICACIONES	OBJETIVO	LIMITE INFERIOR ESPECIFICACIONES
Espesor de la lente	2.8	2.5	2.5
Base de lente de protección lateral (base curva)	N/A	N/A	N/A
Base de lente óptica (base curva)	N/A	9.5c	N/A
Peso (g)	27	26.6	26.2
Tamaño de la lente (vertical) (mm.)	45	44	43
Tamaño de la lente (diagonal) (mm.)	145	145	144
Distancia interpupilar (mm.)	N/A	64	N/A
Forma ocular (bisagra-bisagra) (mm.)	58	57	56
Longitud de la patilla (lente a punta) (mm)	145	145	144
Análisis óptico: tasa de transmisión (%) para lente transparente	100	88	85
Análisis óptico - Velocidad de transmisión (%) para lente ahumada	10.5	10	8
Análisis óptico - Valor UV	N/A	300	N/A
Óptica - Analizador de espejos, Prizm poder,	N/A	0.5 - .25	N/A
Horizontal, L&R			
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

Lente Antiestático.

Visores en Policarbonato 100% con protección lateral.

Patillas en PVC flexible regulable.

Patillas de ajuste angular que permite perfecto ajuste al rostro.

Resistencia a impactos.

Filtro UV 99.9%

Los lentes han sido diseñados con acabados y tratamientos que brindan óptima comodidad, seguridad y un diseño ergonómico que cumple con los estándares más estrictos de calidad.

Los lentes son fabricados en policarbonato oftálmico de alta transparencia.

Gafas con antiempañante.

Aplicaciones

Ensambladoras, Plantas de Ingeniería pesada, Ingeniería de precisión, Construcción, Operación y mantenimiento de maquinaria pesada, Limpieza y mantenimiento, Almacenamiento y distribución, Manufactura en general, Trabajos en espacios abiertos.

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.





Ficha Técnica de Producto

REF: C20184030

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.

MONOGAFA DE SEGURIDAD LENTE CLARO
“CAPONE”

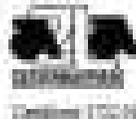
www.creattor.com.co

REF: C20184030





Test Report T3015-01-1 Issue 1
EN 168-2001
Fu Sheng Optical Industry Co., Ltd.
B105 Spectacles
07 October 2009



Approved by:



Keith E. Whiten
Laboratory Manager

Prepared by:



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- c) Unless otherwise indicated, the test results contained in this report apply only to the samples tested and not to lots or batches from which they were taken.

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Objetivo:

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

Clasificación:

- 7.1 Basic requirements
 - 7.1.1 Protection against optical radiation, Sangflase fibers for industrial use (EN 172+A1:2001) (Droplet)
 - 7.1.2 Protection against high-speed particles - Low, medium or high energy impact (F)

Muestra:

B101: Spectacles

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

Date submitted: 16 September 2009

Procedimiento:

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 (57mm DPD) headform.

Variation in lensous 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:

Date tested: 25 September through 01 October 2009

EN 188 Requirement	Compliant	Non-Compliant
6. Design and construction		
6.1 General construction	X	
6.2 Materials		Not assessed
6.3 Headbands		Not applicable
7. 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 Ability of material and surface	X	
7.1.4 Reflections		
7.1.4.1 Minimum reflections		Not applicable
7.1.4.2 Increased reflections	X	
7.1.5 Resistance to Aging		
7.1.5.1 Stability at elevated temperatures	X	
7.1.5.2 Resistance to ultraviolet radiation (ocular only)	X	
7.1.6 Resistance to corrosion		Not applicable
7.1.7 Resistance to impact	X	
7.2. Particulate requirements (Optional)		
7.2.1 Protection against optical radiation		
7.2.1.4 Sunglass filters for industrial use (EN133)	Smoke	X
7.2.2 Protection against high speed particles (F)		X
7.2.3 Lateral Protection		X
7.3. Optional requirements		
8. Marking		Not assessed
10. Information supplied by the manufacturer		Not assessed

Samples assessed meet the requirements of EN188:2001, and as a result of this assessment the following markings are suggested:

Ocular Variant	Filter Type	Filter Code	Ocular Marking	Frame Marking
Clear	Not a filter	N/A	CE only: 1 F	CE only: EN 188 F
Smoke	Sunglass	S-31	CE "filter scale" only: 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 10mm(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	



Difference in prismatic refractive power

Sample ID	Vertical Imbalance (cm/m)	Horizontal Imbalance (cm/m)	Optical Class Met
5A-1	0.05	0.02 Base Out	1
5A-2	0.04	0.02 Base In	1
5A-3	0.03	0.03 Base In	1
Specification			
Optical Class 1:	≤ 0.25	≤ 0.75 Base Out, ≤ 0.25 Base In	
Optical Class 2:	≤ 0.25	≤ 1.00 Base Out, ≤ 0.25 Base In	
Optical Class 3:	≤ 0.25	≤ 1.00 Base Out, ≤ 0.25 Base In	

7.1.2.2.1 Transmittance - Oculars without filtering action

Sample ID	Left (%)	Right (%)	Pass	Fail
5A-4	91.2	91.1	X	
5A-5	90.9	91.0	X	
5A-6	91.1	91.2	X	
Specification:	≥ 74.4			

7.1.2.2.3 Variations in transmittance (filtering)

Sample ID:	5B-4		5B-5		5B-6		Specification
	Ocular: Left	Right	Left	Right	Left	Right	
Minimum %T:	10.5	10.0	10.5	10.0	10.4	9.8	= 10 %
Center %T:	9.8	9.8	9.9	9.7	9.8	9.5	
Minimum %T:	9.7	9.8	9.8	9.5	9.5	9.4	
Actual P1 & P2:	6.1	2.8	6.0	3.2	6.6	3.1	
P1:	1.5		2.0		2.9		= 20%
Pass/Fail:	Pass						

7.1.2.3 Diffusion of light

Sample ID	Measured Value (cd/m ² /lx)	Pass	Fail
Clear			
5A-4	0.06	X	
5A-5	0.04	X	
5A-6	0.17	X	
Smoke			
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.



7.1.4.3.2 Increased robustness - Complete eye-protectors

Sample ID	Location	Conditioning	Velocity (m/s)	Pass	Fail		
Clear							
5A-7	Left Frontal (1)	50°C	5 Imps/ 23mm-43g Drop Ball 1.3m	X			
5A-8				X			
5A-9	Right Frontal (2)			X			
5A-10				X			
5A-11	Left Lateral (3)			X			
5A-12	Right Lateral (4)			X			
5A-13	Left Frontal (1)			-5°C	X		
5A-14	X						
5A-15	Right Frontal (2)	X					
5A-16		X					
5A-17	Left Lateral (3)	X					
5A-18	Right Lateral (4)	X					
Smoke							
5B-7	Left Frontal (1)	50°C			X		
5B-8				X			
5B-9	Right Frontal (2)			X			
5B-10				X			
5B-11	Left Lateral (3)			X			
5B-12	Right Lateral (4)		X				
5B-13	Left Frontal (1)		-5°C	X			
5B-14	X						
5B-15	Right Frontal (2)	X					
5B-16		X					
5B-17	Left Lateral (3)	X					
5B-18	Right Lateral (4)	X					

7.1.5.1 Stability at elevated temperatures; Result: Pass
Samples assessed had no visible deformation.

7.1.5.2 Resistance to ultraviolet radiation - Transmittance

Sample ID	Before (%T)	After (%T)	Relative Change (%)	Pass	Fail
Clear					
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		
Smoke					
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
Clear			
5A-4	0.09	X	
5A-5	0.07	X	
5A-6	0.07	X	
Smoke			
5B-4	0.15	X	
5B-5	0.14	X	
5B-6	0.11	X	
Specification:	≤ 0.75		

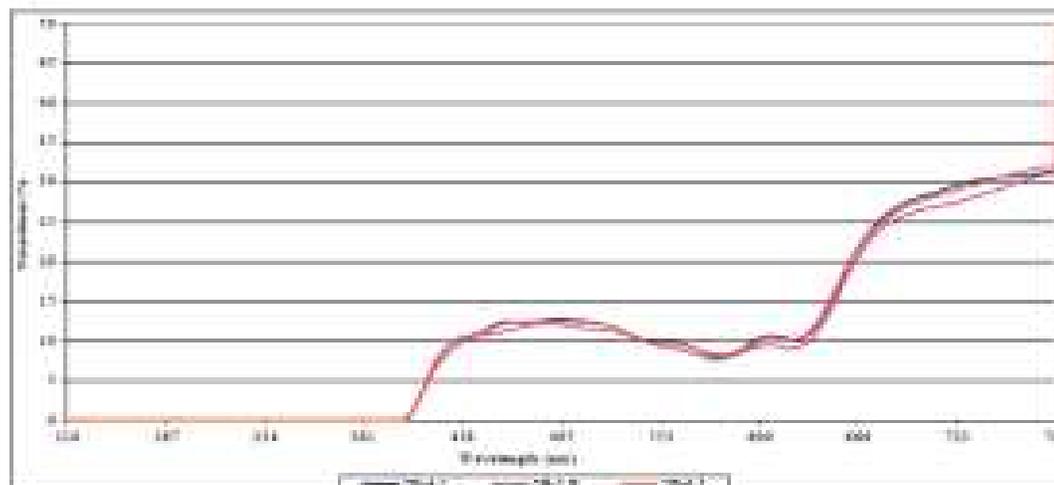
7.1.7 Resistance to ignition; Result: Pass

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

7.1.1.4 Protection against optical radiation - Sunglare filters for industrial use (EN 171)

Sample:

Sample ID:	5B-4	5B-5	5B-6	Specification Scale Number S-3.1
Luminous (Tv)	10.1	9.9	10.4	8.0 to 17.8%
Min. 380 to 515nm	<1E-4	<1E-4	<1E-4	≤ 0.01 Tv
Min. 515 to 550nm	<1E-4	<1E-4	<1E-4	≤ 0.5 Tv
Min. 550 to 650nm	<1E-4	<1E-4	<1E-4	≤ 0.5 Tv
Requirements for "Driving and Road Use"				
Luminous (Tv)	10.1	9.9	10.4	≥ 1.0%
Min. 500 to 650nm	8.0	7.7	8.1	≥ 0.2 Tv
Attenuation Quotient				
Red Signal	1.08	1.06	1.08	≥ 0.8
Yellow Signal	0.98	0.95	0.96	
Green Signal	1.04	1.04	1.04	
Blue Signal	1.19	1.20	1.19	
Scale number opt	S-1.1			



7.2.2 Protection against high-speed particles

Sample ID	Location	Velocity (m/s)	Pass	Fail
Clean				
SA-19	Left Frontal (1)	45.3	X	
SA-20		45.3	X	
SA-21		45.6	X	
SA-22		45.3	X	
SA-23	Right Frontal (2)	45.6	X	
SA-24		45.3	X	
SA-25		45.6	X	
SA-26		45.0	X	
SA-27	Left Lateral (3)	45.6	X	
SA-28		45.3	X	
SA-29	Right Lateral (4)	45.3	X	
SA-30		45.3	X	
Smoke				
SB-19	Left Frontal (1)	45.3	X	
SB-20		45.6	X	
SB-21		45.6	X	
SB-22		45.3	X	
SB-23	Right Frontal (2)	45.6	X	
SB-24		45.6	X	
SB-25		45.6	X	
SB-26		45.0	X	
SB-27	Left Lateral (3)	45.3	X	
SB-28		45.7	X	
SB-29	Right Lateral (4)	45.0	X	
SB-30		45.0	X	

7.2.3 Lateral protection; Result: Pass

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

