

TEST REPORT

REPORT NO. TH50102B/2011
PAGE NO. 1 OF 6
DATE: June 09, 2011

JIANGYIN CHANG-HUNG INDUSTRIAL MANUFACTURING FACTORY LLC

Industry Park, No. 16 Huannan Road, Huangtang, Xiake Town, Jiangyin City, China

The following merchandise was submitted and identified by the applicant as:

Product Description: SAFETY GLASSES
Style/Item No.: CPG03
Manufacturer/Vendor: JIANGYIN CHANG-HUNG INDUSTRIAL MANUFACTURING FACTORY LLC
Country of Origin: CHINA
Additional Information: Lens: clear color
Sample Received Date: May 17, 2011, June 02, 2011
Test Period: May 18, 2011 ~ June 07, 2011

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: For compliance with clause 5.1.3, 5.2, 5.3, 5.4 and 6 of ANSI/ISEA Z87.1-2010 American National Standard for Occupational and Educational Personal Eye and Face Protection Devices.

Test Methods: According to the test procedures of ANSI/ISEA Z87.1-2010 American National Standard for Occupational and Educational Personal Eye and Face Protection Devices.

Test Results: (SEE ATTACHED SHEETS)

--- See Next Page ---

Signed for and on behalf of
SGS Taiwan Ltd.



Rex Su
Supervisor

Laboratory address: No. 115, Youyuan N Rd., Lungjing Dist., Taichung City, Taiwan

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Test Results:

Clause

5. General Requirements

Results

5.1.3 Haze

Pass

When tested in accordance with Section 9.3, clear plano lenses shall not exhibit more than 3% haze.

Finding: Satisfactory 0.8%.

5.2 Physical Requirements

Pass

Protectors shall be 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

Pass

When tested in accordance with Section 9.6, protector lenses shall not fracture when impacted by a 25.4mm (1 in.) steel ball when dropped from a height of 127cm (50 in.). Glass welding filter lenses shall be tested and used in conjunction with a safety plate in order to comply with the impact performance criteria.

5.2.2 Protector Acceptance Criteria

Pass

When each type test is conducted as indicated above, a complete device shall fail if any of the following occurs:

- piece fully detached from the inner surface
- fracture
- penetration of the rear surface
- lens not retained

5.2.3 Ignition

Pass

When tested in accordance with Section 9.7, protectors shall not ignite or continue to glow once the rod is removed. Each externally exposed material (exclusive of textiles or elastic bands) shall be tested.

5.2.4 Corrosion Resistance of Metal Components

Pass

When tested in accordance with Section 9.8, metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion. Lenses and electrical components are excluded from these requirements.

Remark: N/A = Not Applicable.

--- See Next Page ---

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Test Results:

Clause

Results

Pass

5.2.5 Minimum Coverage Area

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

Frames designed for small head sizes shall cover in plane view an area of not less than 34mm (1.34 in.) in width and 28mm (1.10 in.) in height (elliptical), centered on the geometrical center of the lens.

Frames designed for small head sizes shall be tested on the 54mm (2.13 in.) PD headform and are permitted to have an eye size, including eyewire thickness, as small as 34 x 28mm (1.34 x 1.10 in.). Frames that are tested using the small headform shall be marked on the frame with the letter "H."

5.3 Minimum Lens Thickness

The minimum lens thickness for specified protectors shall be those indicated in Table 3.

N/A

Remark: For plano spectacles, no minimum thickness is required for protectors if they meet the requirements of Section 9.11, High Mass Impact Test.

5.4 Marking Requirements

All protectors shall bear the permanent markings in specified locations as shown in Table 4a. Markings shall follow the sequence shown in Table 4b. Markings for lens type and use applications shall be required only when claims for protection against the hazard or indicated use are made by the manufacturer.

In addition, the components of frames that are intended for prescription protector use shall be marked for size in accordance with the system described in ANSI Z80.5-2004. Fronts shall be marked with the A-dimension (eye size) and DBL (distance between lenses). Temples shall be marked with their overall length.

Pass

Note. There was no manufacturer's Mark or Logo found on the sample.

6. Impact Protector Requirements

6.1 General

6.1.1 Impact Rated Protectors

Impact-rated protectors and replaceable components shall meet the impact requirements in this standard and be marked in accordance with Table 4a and Table 4b.

Pass

Remark: N/A = Not Applicable.

--- See Next Page ---

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Test Results:

Clause

Results

Pass

6.1.2 Frames and Shells

Frames and shells shall meet the requirements for high mass impact and high velocity impact if they are impact-rated. These components shall be tested as a complete device and for frames and shells to be used with prescription lenses, shall be fitted with representative test lenses. Frames and shells are exempt from the penetration requirement.

6.1.3 Lateral (Side) Coverage

Pass

When tested in accordance with Section 9.10, impact rated protectors shall 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 10mm (0.394 in.) posterior to the corneal plane and not less than 10mm (0.394 in.) in height (or 8 mm (0.315 in) for the smaller headform) above and not less than 10mm (0.394 in.) in height (or 8mm (0.315 in) for the smaller headform) below the horizontal plane centered on the eyes of the headform. The probe shall not contact the headform within the defined coverage area. (See Annex D).

6.2 Impact Requirements

6.2.1 Protector Acceptance Criteria

Pass

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:

- piece fully detached from the inner surface
- fracture
- penetration of the rear 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.

6.2.2 High Mass Impact

Pass

When tested in accordance with Section 9.11, the complete device shall be capable of resisting an impact from a pointed projectile weighing 500g (17.6 oz.) dropped from a height of 127cm (50.0 in.).

Finding: 4 out of 4

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Test Results:

Clause

Results

Pass

6.2.3 High Velocity Impact

When tested in accordance with Section 9.12, the complete device shall be capable of resisting an impact from a 6.35mm (0.25 in) diameter steel ball traveling at the velocity specified in Table 5. No contact with the eye of the headform is permitted as a result of impact.

Finding: 6 out of 6

6.2.4 Penetration Test (lenses only)

Pass

When tested in accordance with Section 9.13, lenses for all complete devices shall be capable of resisting penetration by a weighted needle with a total weight of 44.2gm (1.56 oz.) dropped from a height of 127cm (50.0 in.).

Finding: 4 out of 4

6.2.5 Prescription Lens Material Qualification

N/A

6.2.6 Prescription Lens Mounting Qualification

N/A

6.3 Additional Impact Requirements for Specific Protector Types

N/A

Remark: N/A = Not Applicable.

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Picture page



Photo "A" Appearance of 1st sample
(Front view)



Photo "B" Appearance of 1st sample
(Side view)

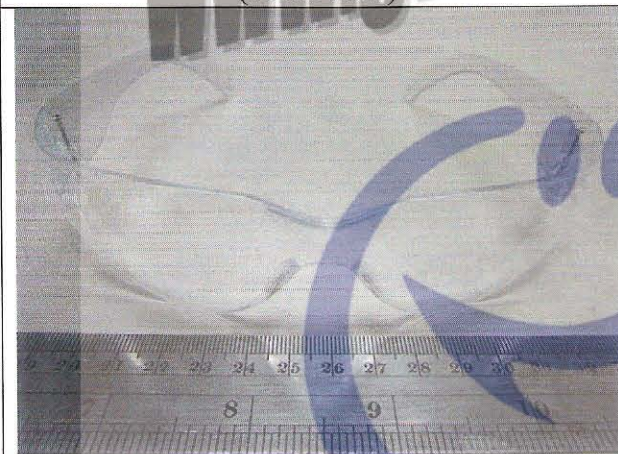


Photo "C" Appearance of 2nd sample
(Front view)



Photo "D" Appearance of 2nd sample
(Front view)

--- End of Report ---

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TWA 5198870



EC TYPE EXAMINATION CERTIFICATE

SAI Global Assurance Services Limited (“SAI Global”) (Notified Body No: **NB2056**) has examined the product and the related technical documentation as presented and certifies that the product complies with the Directive(s) and Standard or Specification as below and on the appendixes included with the certificate.

Certificate holder: **Jiangyin Chang-hung Industrial Manufacturing Factory LLC,
Industry Park, No.16 Huannan Road,
Huangtang, Xiake Town, Jiangyin City, China**

Product Description: **Personal Eye Protectors (Category II)**

Examined for compliance with: **Directive PPE 89/686/EEC - (Article 10)**

Relevant Standard(s)/Technical Specification.

**EN 166:2001 Personal Eye Protection, EN170:2002 Personal Eye-protection -
Ultraviolet Filters - Transmittance Requirements and Recommended Use, EN
172:1994 Personal eye-protections - Sunglare filters for industrial use + A2:2001**

Original certification date: **20th September 2011**

Date of issue: **6th December 2016**

Expiry date: **19th September 2021**

Certificate No: **CEPPE20045**

Nicole Grantham

General Manager SAI Global Certification Services

Authorized Signatory

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Notified Body: 2056

THIS CERTIFICATE DOES NOT ENTITLE THE HOLDER TO USE ANY OF THE CERTIFICATION TRADEMARKS ISSUED BY SAI GLOBAL LIMITED OR OTHERWISE.



APPENDIX 1

SAI Global Assurance Services Limited ("SAI Global") (Notified Body No: NB2056) has examined the product and the related technical documentation as presented and certifies that the product complies with the Directive(s) and Standard or Specification as below.

Product Description: **Personal Eye Protectors – safety glasses (Category II)**

Model	Description
CPG 09	Safety Eyewear - Clear Polycarbonate Lens '1F', Ultraviolet, (2-1.2 or 2C-1.2), Nylon Temple & Frame Clips and TPR Nose Piece
CPG 09	Safety Eyewear - Yellow Polycarbonate Lens '1F', Ultraviolet, (2- 1.2 or 2C-1.2), Nylon Temple & Frame Clips and TPR Nose Piece
CPG 09	Safety Eyewear - Smoke Polycarbonate Lens '1F', Sunglare, (5- 3.1), Nylon Temple & Frame Clips and TPR Nose Piece

Examined for compliance with: **Directive PPE 89/686/EEC (Article 10)**

Relevant Standard(s)/Technical Specification: **EN 166:2001 Personal Eye Protection**

Technical file Reference No: **CEPPE20045 – CR12067**

Original date of issue: **20th September 2011**

Date of issue: **6th December 2016**

Certificate No: **CEPPE20045A1**

Nicole Grantham
General Manager SAI Global Certification Services
Authorized Signatory

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APPENDIX 2

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Product Description: **Personal Eye Protectors – safety glasses (Category II)**

Model	Description
CPG 07	Safety Eyewear - Clear Polycarbonate Lens '1F', Ultraviolet, (2-1.2 or 2C-1.2), Polycarbonate Temple & Frame and TPR Tip pads.

Examined for compliance with: **Directive PPE 89/686/EEC (Article 10)**

Relevant Standard(s)/Technical Specification: **EN 166:2001 Personal Eye Protection**

Technical file Reference No: **CEPPE20045A2 – CR12741**

Original date of issue: **19th January 2012**

Date of issue: **6th December 2016**

Certificate No: **CEPPE20045A2**

Nicole Grantham

General Manager SAI Global Certification Services

Authorized Signatory

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APPENDIX 3

SAI Global Assurance Services Limited ("SAI Global") (Notified Body No: NB2056) has examined the product and the related technical documentation as presented and certifies that the product complies with the Directive(s) and Standard or Specification as below.

Product Description: **Personal Eye Protectors – safety glasses (Category II)**

Model	Description
CPG 10	Safety Eyewear - Clear Polycarbonate Lens '1F', Ultraviolet, (2-1.2 or 2C-1.2), clip screw Polycarbonate Temple & Frame and Rubber Tip pads and nose piece.

Examined for compliance with: **Directive PPE 89/686/EEC (Article 10)**

Relevant Standard(s)/Technical Specification: **EN 166:2001 Personal Eye Protection**

Technical file Reference No: **CEPPE20045 – CR13360**

Original date of issue: **9th May 2013**

Date of issue: **6th December 2016**

Certificate No: **CEPPE20045A3**

Nicole Grantham
General Manager SAI Global Certification Services
Authorized Signatory

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APPENDIX 4

SAI Global Assurance Services Limited ("SAI Global") (Notified Body No: NB2056) has examined the product and the related technical documentation as presented and certifies that the product complies with the Directive(s) and Standard or Specification as below.

Product Description: **Personal Eye Protectors – safety glasses (Category II)**

Model	Description
CPG 10	Safety Eyewear - Clear Polycarbonate Lens '2F', Ultraviolet, (2-1.2 or 2C-1.2), Nylon Temple & Frame, TPR Nose Piece
CPG 10	Safety Eyewear - Clear Polycarbonate Lens '2F', Ultraviolet, (2-1.2 or 2C-1.2), Nylon Temple & Frame, TPR Nose Piece

Examined for compliance with: **Directive PPE 89/686/EEC (Article 10)**

Relevant Standard(s)/Technical Specification:
EN 166:2001 Personal Eye Protection

Technical file Reference No: **CEPPE20045 – CR20252**

Original date of issue: **6th October 2012**

Date of issue: **6th December 2016**

Certificate No: **CEPPE20045A4**

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General Manager SAI Global Certification Services
Authorized Signatory

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APPENDIX 5

SAI Global Assurance Services Limited ("SAI Global") (Notified Body No: NB2056) has examined the product and the related technical documentation as presented and certifies that the product complies with the Directive(s) and Standard or Specification as below.

Product Description: **Personal Eye Protectors – safety glasses (Category II)**

Model	Description
CPG 03	Safety Eyewear - Smoke Polycarbonate Lens '1FT', Sunglare, (5-3.1), Polycarbonate Frame
CPG 03	Safety Eyewear - Lite Mirror Polycarbonate Lens '1FT', Ultraviolet, (2-1.7 or 2C-1.7), Polycarbonate Frame
CPG 03	Safety Eyewear - Clear Polycarbonate Lens '1FT', Ultraviolet, (2-1.2 or 2C-1.2), Polycarbonate Frame

Examined for compliance with: **Directive PPE 89/686/EEC (Article 10)**

Relevant Standard(s)/Technical Specification: **EN 166:2001 Personal Eye Protection, EN170:2002 Personal Eye-protection - Ultraviolet Filters - Transmittance Requirements and Recommended Use, EN 172:1994 Personal eye-protections - Sunglare filters for industrial use + A2:2001**

Technical file Reference No: **CEPPE20045 – CR20631**

Original date of issue: **23rd November 2012**

Date of issue: **6th December 2016**

Certificate No: **CEPPE20045A5**

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General Manager SAI Global Certification Services
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INSPEC



EC TYPE-EXAMINATION CERTIFICATE: 2145

Product description: -

Personal Eye Protection- Spectacles & Goggles

Product identification: -

See schedule

Manufacturer: -

Jiangyin Chang-hung Industrial
Manufacturing Factory LLC
No. 16, Huannan Road, Huang Tang,
Xiake Town, Jiangyin City, Jiangsu
P.R. China.

When assessed and examined against harmonised standard EN166:2001 is found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

Signed:

Date: 19th April 2017

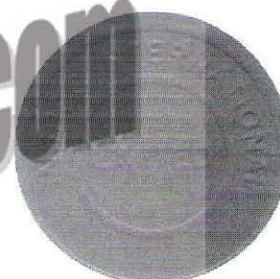
Helen Taft, Manager, Certification Services

For and on behalf of INSPEC International Ltd.
56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ
England (Notified Body No: 0194)

Certification remains valid until 3rd July 2019, providing compliance with INSPEC's terms and conditions is maintained.

Original date of issue: 17th January 2011

For terms and conditions of issue, see page 2



Terms and Conditions

Reference Documents: -

- i) Test Reports - INSPEC 1.10.12.79, 1.11.01.11
1.11.01.12, 1.11.06.36, 1.11.06.37
1.11.06.38, 1.11.06.39, 1.12.03.25,
1.12.03.26, 1.14.06.65 & 1.14.10.33
revision 2, and refer certificate
schedule page.
- ii) Technical File - TF/ 2145
- iii) Test and Inspection Plan - Dated 2011/1/12, 2011/2/18, 2012/4/12,
2014/6/24 & 2016/03/14

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.
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<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

CERTIFICATION INDEX

Item	Status	Issued	Amendment
Pages 1-4	Withdrawn	110117	Initial issue
Pages 1-4	Withdrawn	110327	Add models CPG02, CPG50 and CPG50V
Pages 1-4	Withdrawn	110714	Add models CPG02-Y and CPG06
Pages 1-4	Withdrawn	120529	Add models CPG04 and CPG80 Terms and conditions added
Pages 1-4	Withdrawn	140703	Add claim of resistance to fogging of ocular: model CPG80 Addition of 5 year validity
Pages 1-4	Withdrawn	141202	Add models CPG61 and CPG61V
Pages 1-5	Withdrawn	160324	Add models CPG16 and CPG16-I/O Add test and inspection plan, 2016/03/14
Pages 1-5	Withdrawn	160418	Add models CPG15, CPG15-g, CPG15-y, CPG15-I/O, CPG14, CPG14-y, CPG14-g
Pages 1-5	Valid	170419	Removal of EU representative Add model CPG01, CPG03, CPG03-AF, CPG03-y-AF, CPG03-g-AF, CPG11, CPG11-y, CPG11-g

CERTIFICATION SCHEDULE

Safety Spectacles

Model	Lens	Performance	Scale number
CPG05	Clear	1 F	--
CPG02	Clear	1 F	--
CPG02-Y	Yellow	1 F	2C-1.2
CPG06	Clear	1 F	--
CPG04	Clear	1 F	--

Safety Goggles

Model	Lens	Performance	Options Claimed	Scale number
CPG50	Clear	1 B	--	--
CPG50V	Clear	1 B	--	--
CPG80	Clear	1 B	N	--
CPG61	Clear	1 B	N	--
CPG61V	Clear	1 B	N	--

Performance:

1 = optical class one

F = high speed particles, low energy impact

B = high speed particles, medium energy impact

N = Resistance to fogging of oculars

CERTIFICATION SCHEDULE

Safety Spectacles

Model	Lens Material/ transmittance	Optical Class	Report ref	Options
CPG16	Polycarbonate Clear lens, 2C-1.2	1	1.16.02.12	F N
CPG16-I/O	Polycarbonate I/O lens, 5-1.7	1	1.16.02.12	F
CPG15	Polycarbonate Clear lens, 2C-1.2	1	1.16.03.37	FT N
CPG15-g	Polycarbonate Smoke lens, 5-3.1	1	1.16.03.37	FT N
CPG15-y	Polycarbonate Yellow lens, 2C-1.2	1	1.16.03.37	FT N
CPG15-I/O	Polycarbonate Flash Silver mirror lens, 5-3.1	1	1.16.03.37	FT
CPG14	Polycarbonate Clear lens, 2C-1.2	1	1.16.01.53	F N
CPG14-g	Polycarbonate Smoke lens, 5-3.1	1	1.16.01.53	F N
CPG14-y	Polycarbonate Yellow lens, 2C-1.2	1	1.16.01.53	F N
CPG01	Polycarbonate Clear lens, 2C-1.2	1	1.17.01.31	F
CPG03	Polycarbonate Clear lens, 2C-1.2	1	1.17.01.32	F
CPG03-AF	Polycarbonate Clear lens, 2C-1.2	1	1.17.01.32	F N
CPG03-y-AF	Polycarbonate Yellow lens, 2C-1.2	1	1.17.01.32	F N
CPG03-g-AF	Polycarbonate Smoke lens, 5-3.1	1	1.17.01.32	F N
CPG11	Polycarbonate Clear lens, 2C-1.2	1	1.17.01.33	F N
CPG11-y	Polycarbonate Yellow lens, 2C-1.2	1	1.17.01.33	F N
CPG11-g	Polycarbonate Smoke lens, 5-3.1	1	1.17.01.33	F N

Performance:

1 = optical class one

F = high speed particles, low energy impact

FT= high speed particles, low energy impact at extreme temperature

N = Resistance to fogging of oculars