

## **Directions Governing the Inspection of Sunglasses**

Adopted and promulgated by the Bureau of Standards, Metrology and Inspection, Ministry of Economics Affairs, on 13 February 2008.

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1. These Directions are established for inspection process of sunglasses commodities.
2. Commodities: Sunglasses and nonprescription shaped and finished lenses of sunglasses.
3. Inspection Method: Declaration of Conformity (DoC).
4. Commodity Inspection Mark: the obligatory inspection applicant shall, based on “Regulations Governing the Use of Commodity Inspection Mark”, apply to the Bureau of Standards, Metrology and Inspection, MOEA (hereinafter referred to as BSMI) or its affiliates for the designated code of the commodity inspection identification number, print the Commodity Inspection Mark of the Statement of Conformity and paste it at part of commodities where it could be easily sighted (such as spectacle frames or hang tags).
5. Regulations to Doc:
  - (1) The relevant technical documents shall be prepared to issue a Doc by the obligatory inspection applicant are as follows:
    - ①Commodities Specifications:
      - (a) Commodities structure, materials and scope of application.
      - (b) Commodities catalogue and color photographs with sizes of 4\*6 inches or more.
      - (c) List of full range of commodity models.
    - ②One original copy of testing report completed within one year prior to the date of the signature of the Doc.
    - ③Classification Table for Testing Report of Doc for sunglasses and related eyewear commodities.
    - ④Production process summary.
    - ⑤Production process quality control measures or other verification documents.
    - ⑥Mark Sample.
    - ⑦Other required technical documents.
  - (2) The Obligator inspection applicant shall keep the Doc and relevant technical

documents until five years after the termination of production or import of such Commodities.

- (3) The Doc shall be stored in the business office of the Obligor of inspection applicant and presented by the Obligator within 24 hours (10 working days for technical documents) upon the market inspection by BMSI.
6. The applicant should provide the declaration of conformity classification and samples to the Bureau of Standard, Metrology and Inspection (BSMI) or designated testing laboratories by BSMI for conducting the test.
7. Type and series of type mentioned in the test report are defined as follows:
  - (1)Sunglasses
    - ①Type: The classification is based on the brand and transmittance (including general and polarizing filters). Of the same type, metal spectacle frames and the higher filter category number regarded as the main type. Without metal spectacle frames and the higher filter category number, select any model as the main type.
    - ②Series of the type: Of the same type, different models, styles, filter category numbers and filter colors belong to the series type other than the main type.
  - (2)nonprescription shaped and finished lenses of sunglasses
    - ①Type: The classification is based on the brand (or manufacturer) and transmittance (including general and polarizing filters). Of the same type, the higher filter category number regarded as the main type. Without the higher filter category number, select any model as the main type.
    - ②Series of the type: Of the same type, different models, filter category numbers and filter colors belong to the series type other than the main type.
8. Test principles:
  - (1) The test of the main type should be conducted on all test items.
  - (2) The test of the series of type should be conducted as follows:
    - ①If the number of series of the type is accumulated less than thirty, each ten series of the types selects one type to conduct on the key test items. If the number of series of the type is less than ten, selects one type to conduct on the key test items.
    - ②If the number of series of the type is accumulated above thirty-one less than one hundred and fifty, each twenty series of the types selects one type to conduct on the key test items. If the number of series of the type is less than twenty, selects one type to conduct on the key test items.

- ③ If the number of series of the type is accumulated above one hundred and fifty-one less than five hundred, each fifty series of the types selects one type to conduct on the key test items. If the number of series of the type is less than fifty, selects one type to conduct on the key test items.
- ④ If the number of series of the type is accumulated above five hundred and one, each hundred series of the types selects one type to conduct on the key test items. If the number of series of the type is less than one hundred, selects one type to conduct on the key test items.

9. (1) Inspection standard: CNS 15067.

(2) The items for the main type and series of type are given as follows:

① Sunglasses

(a) All test items: Transmittance (solar UV-B transmittance 280 nm to 315 nm 、 solar UV-A transmittance 315 nm to 380 nm 、 visible spectral transmittance 、 uniformity of luminous transmittance) 、 Refractive power (spherical power 、 astigmatic power 、 Prism imbalance [horizontal prismatic power 、 vertical prismatic power]) 、 filters minimum robustness 、 construction 、 filter material and surface quality 、 frame deformation and retention of filters 、 resistance to ignition and labels. But metal frame direct contact with the skin adds “release of nickel” test item. For road use and driving adds “spectral transmittance 475 nm to 650 nm 、 detection of signal lights” two test items. Polarizing filters add “polarization degree 、 the plane of polarization” two test items.

(b) Key test items: Transmittance (solar UV-B transmittance 280 nm to 315 nm 、 solar UV-A transmittance 315 nm to 380 nm 、 visible spectral transmittance 、 uniformity of luminous transmittance). For road use and driving adds “spectral transmittance 475 nm to 650 nm 、 detection of signal lights” two test items. Polarizing filters add “polarization degree 、 the plane of polarization” two test items.

② nonprescription shaped and finished lenses of sunglasses

(a) All test items: Transmittance (solar UV-B transmittance 280 nm to 315 nm 、 solar UV-A transmittance 315 nm to 380 nm 、 visible spectral transmittance 、 uniformity of luminous transmittance) 、 Refractive power (spherical power 、 astigmatic power) 、 filters minimum robustness 、 resistance to ignition and labels. But for road use and driving adds “spectral transmittance 475 nm to

650 nm 、 detection of signal lights” two test items. Polarizing filters add “polarization degree 、 the plane of polarization” two test items.

(b)Key test items: Transmittance(solar UV-B transmittance 280 nm to 315 nm 、 solar UV-A transmittance 315 nm to 380 nm 、 visible spectral transmittance 、 uniformity of luminous transmittance). But for road use and driving adds “spectral transmittance 475 nm to 650 nm 、 detection of signal lights” two test items. Polarizing filters add “polarization degree 、 the plane of polarization” two test items.

10. After received the test report, the applicant should amend the test reports to the original inspection agencies (institutions) with original test report 、 declaration of conformity classification 、 sample. According to applicant’ s amendment application for the declaration of conformity classification changed as follows:
  - (1) If the newly added is regarded as the main type, all test items shall be conducted.
  - (2) If the newly added is regarded as the series type, only the key test items shall be conducted based on the principle of the article eight. If don’t have to conduct the key test items based on the principle of the article eight, amend the declaration of conformity classification.
11. The test report of the same brand 、 style 、 manufacturer of sunglasses can be used by others for Doc signature with its applicant’s authorization
12. The obligatory of inspection applicant, manufacturing or importing commercially available costume non-prescription colored glasses commodities shall mark the specifications according to the actual function of the commodities. The mark labeling and management methods are as follows:
  - (1)Commodities with anti-sunlight radiation features shall be marked the wording “Sunglasses”. For sunglasses targeting children under the age of fourteen and available for playing purpose, CNS 4797 “Safety of toys (General requirements)” shall be included in the inspected items.
  - (2) Commodities with no anti-sunlight radiation features and for playing of children shall be marked with the wording “Toys”. For costume purpose of adults, the wording “Costume Non-prescription Glasses” shall be marked.
  - (3) Commodities without being marked shall be determined by BMSI for their product types. Commodities categorized as sunglasses or toys shall be treated with relevant regulations.