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Content

Title：	Directions Governing the Inspection of Personal Protective Equipment Ch
Date：	2022.03.16
Legislative：	1.Adopted and promulgated by Ministerial Order No. 10420004391, BSMI, MOEA on 25 September 2015, and enforced on 1 October 2015. 2.Clauses 2, 3, 4, 19, 20, 21, 22, 23, 24, 25, 27 and 35 amended and promulgated by Ministerial Order No. 10620001150 on 5 April 2017. 3.Clauses 2, 3, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 and 33 amended and promulgated by Ministerial Order No. 10720003850 on 5 September 2018. 4.Clauses 2, 3, 4, 34, 35, 37, 39 and 40 amended and promulgated by Ministerial Order No. 10820006940 on 20 December 2019. 5.Clauses 35 and 37 amended and promulgated by Ministerial Order No. 10920002330 on 7 April 2020. 6.Clauses 2, 3, 4, 34, 35, 37, 38, 39, 40, 41 and 42 amended and promulgated by Ministerial Order No. 10920005320 on 15 September 2020. 7.Clauses 11, 21, 27 and 28 amended and promulgated by Ministerial Order No. 11120001600 on 16 March 2022, and enforced on 1 June 2022.
Content：	Chapter 1 – General Provision 1.These Directions are stipulated by the Bureau of Standards, Metrology and Inspection (BMSI) for implementing the inspection of personal protective equipment. 2.Scope of inspection: personal protective equipment imported or manufactured domestically. (1)Protective gloves: rubber or plastic protective gloves for occupational health, electrical safety rubber insulation gloves and protective leather welding gloves. (2)Safety belts: safety belts for lineman, fasten-type safety belts and full body harness. (3)Protective footwears: protective boots for occupational health, safety footwear (covered by CNS 20345) and protective footwear (covered by CNS 20346). (4)Protective helmets: protective helmets for drivers and passengers of motorcycles and mopeds, protective helmets for pedal cyclists, protective helmets for users of skates, skateboards and roller skates ("protective helmets for skating and similar activities"), industrial protective helmets, helmets for baseball activities, helmets for soft baseball and softball use, and catcher helmets for baseball and softball activities. (5)Eye protectors: eye protectors for welding, eye protectors with filtering function (ultraviolet, infrared or industrial sun glare) or no filtering function, filters of non-automatic dimming welding face shield ("filters"), non-automatic dimming welding face shields ("welding face shields"), eye protectors for vehicular users, and eye-protection of helmets for pedal cyclists, skates, skateboarders and roller skates, (“eye-protection of helmets for pedal cyclists and similar activities”). 3.Inspection schemes (1)Protective gloves: a.Rubber protective gloves for occupational health, electrical safety rubber insulation gloves and protective leather welding gloves: batch-by-batch inspection or registration of product certification (Module II + III). b.Plastic protective gloves for occupational health: declaration of conformity. (2)Safety belts: batch-by-batch inspection or registration of product certification (Module II + IV, V or VII). (3)Protective footwears: a.Protective boots for occupational health: Batch-by-batch Inspection or Registration of Product Certification (Module II + III).

b.Safety and protective footwear: Type-Approved Batch Inspection or Registration of Product Certification (Module II + III).
(4)Protective helmets: Batch-by-batch Inspection or Registration of Product Certification (Module II + IV, V or VII).
(5)Eye protectors: Batch-by-batch Inspection or Registration of Product Certification (Module II + IV, V or VII).

4.General requirements of inspection schemes
(1)Batch-by-batch inspection:
a.Before a product is imported or transported outside of manufacturing premises, the obligatory inspection applicant must apply for inspection by submitting an application form to the Bureau of Standards, Metrology and Inspection (BSMI) or its Branches (all together referred to as the "Inspection Authority"). Those who apply for the inspection of eye protectors for welding, eye protectors with filtering function (ultraviolet, infrared or industrial sun glare filter for industrial use) or no filtering function, filters or welding face shields shall indicate the date of manufacture on the application form. If a selective function is claimed, testing reports from third-party laboratories demonstrating that the product conforms to the selected function shall be submitted. The Inspection Authority will not accept applications if the obligatory inspection applicant fails to fill out the application form.
b.Application for protective helmets for drivers and passengers of motorcycles and mopeds and eye protectors for vehicular users may be combined in one application. Where one application is made for both products, the name of product on the application form shall be “protective helmets for drivers and passengers of motorcycle and mopeds (includingeye protectors for vehicular users)” or “protective helmets for drivers and passengers of motorcycles and mopeds (including eye protectors).” After the product pass inspection or is certified, it will be granted to use the Commodity Inspection Mark, which shall be affixed to the body of the protective helmet.
c.Application for welding face shields and filters may be combined in a single application. Where one application is made for both products, the name of the product on the application form shall be “welding face shield (with filter).” After the product pass inspection or is certified, it will be granted to use the Commodity Inspection Mark, which shall be affixed to the body of the welding face shield.
d.Application for “Protective helmets for pedal cyclists,” “protective helmets for users of skating and similar activities” and “eye-protection of helmets for pedal cyclists and similar activities” may be combined in a single application. Where one application is made for all three products, the name of the product on the application form shall be “protective helmets for pedal cyclists (including eye-protection of helmets for pedal cyclists)” and “protective helmets for users of skating and similar activities (including eye-protection of helmets for users of skating and similar activities)” or “protective helmets for pedal cyclists with eye protectors) and “protective helmets for users of skating and similar activities (including eye protectors).” After the product pass inspection or is certified, it will be granted to use the Commodity Inspection Mark, which shall be affixed to the body of the protective helmet.
e.The batch of products subject to one application shall be of the same obligatory inspection applicant, of the same CCC Code, of the same type or of the same specification, except for conditions mentioned in the preceding paragraphs.
f.The determination principle of type specified in the Registration of Product Certification scheme of individual product shall apply to determine whether the product is of the same type mentioned in the preceding paragraph.
(2)Registration of Product Certification (RPC):
a.An application for type test shall be made to the Inspection Authority or BSMI designated testing laboratories by submitting the type classification table, diagram of product structure, list of product parts, color photos (3”x5” or larger-sized) of finished products and components, a sample of the Chinese label, relevant technical documents and samples of the products.
b.One type of product from the main types and series of types shall be sampled respectively for type
testing, in principle.
c.After receipt of the type-test report, the applicant shall apply to the Inspection Authority for registration of the products by submitting other documents relevant to conformity assessment in accordance with the RPC application procedures.
d.After receipt of the RPC Certificate, the obligatory inspection applicant shall print the Commodity Inspection Mark, which is in the form of a Roman letter ‘R’ followed by a designated code, on the registered products. The designated code is the RPC Certificate number.
e.Where any changes or modifications were made to the scope as listed in the PRC Certificate, the obligatory inspection applicant shall obtain a revised type-test report from the original issuing body

and apply for a renewed RPC Certificate with the Inspection Authority.
(3)Declaration of Conformity (DoC):
a.The obligatory inspection applicant shall prepare the following technical documents when signing the Declaration of Conformity:
(a)Descriptions of the product concerned, including its structure, material, purpose, product catalogue, color photos (3”x5” or larger-sized) of the product and a comprehensive list of specifications.
(b)The original copy of the type-test report, which shall be issued within one year prior to signing of the Declaration of Conformity.
(c)Summary of manufacturing processes.
(d)Management and supervision measures in place during the manufacturing processes.
b.An applicant shall apply to the Inspection Authority or BSMI designated testing laboratories for type test by submitting the type classification table and product samples.
c.The obligatory inspection applicant must keep the Declaration of Conformity and relevant technical documents for an additional 5 years after the products are no longer manufactured or imported.
d.The Declaration of Conformity shall be kept by the obligatory inspection application for check. It shall be presented within 24 hours upon market checks performed by the Inspection Authority. The relevant technical documents shall be delivered to the Inspection Authority within 10 working days.
(4)Type-Approved Batch Inspection (TABI):
a.The obligatory inspection applicant shall apply for type-test in accordance with the first and second paragraphs of Clause 2. After having obtained the type-test report, the obligatory inspection applicant shall apply to the Inspection Authority for type approval by submitting the application form, type-test report and relevant technical documents.
b.The obligatory inspection applicant shall apply to the Inspection Authority for inspection by submitting the application form and a copy of Type Approval Certificate before a product is imported or transported out of the production premises. The application shall not be accepted if the obligatory inspection applicant fails to fill out the application form or provide a copy of the Type Approval Certificate.
c.The batch of products subject to one application shall be of the same obligatory inspection applicant and of the same type.
d.Where any changes or modifications were made to the scope as listed in the PRC Certificate, the obligatory inspection applicant shall obtain a revised type-test report from the original issuing body and apply for a renewed RPC Certificate with the Inspection Authority.

Chapter 2 – Inspection Requirements for Protective Gloves

5.Inspection standards and test items
(1)Rubber and plastic protective gloves for occupational health: CNS 8086, including appearance, tensile load, pinhole, impermeability of the product, symbols and sizes.
(2)electrical safety rubber insulation gloves: CNS 12546, all items.
(3)protective leather welding gloves: CNS 7178, all items.
(4)Where the sizes of the products are decided by the agreement reached by the selling and buying parties, the Inspection Authority may accept the application for inspection/testing based on the agreed documents presented by the obligatory inspection applicant (for example, contracts or purchase orders) by following the requirements stated in the inspection standards. It is not necessary for the obligatory inspection applicant to obtain approval from the BSMI prior to the application for inspection/test.

6.Sampling Principles for Batch-by-Batch Inspection
(1)Rubber protective gloves for occupational health: 3 pairs for each category depending on the material (natural rubber or synthetic rubber) and reagent classification and an additional pair for every extra reagent if the gloves claim to be used for more than 3 reagents.
(2)Electrical safety rubber insulation gloves: 2 pairs for each category depending on the intended purposes (voltage resistance).
(3)Protective leather welding gloves: 2 pairs for each category depending on the intended purposes (fusing or gas welding).
(4)The Inspection Authority may seal the same number of samples mentioned in the preceding paragraphs and put them in the custody of the obligatory inspection applicant for re-inspection or re-testing.

7.Processing time of batch-by-batch inspection: 7 working days after sampling.

8.Principles of Type Determination under RPC or DoC:
(1)Rubber and plastic protective gloves for occupational health:
a.Same type: same category (natural or synthetic rubber).
b.Main type: among products of the same type, any reagent may be selected as the main type.
c.Series of type: among products of the same type, reagents classification other than the main type.
(2)Electrical safety rubber insulation gloves:
a.Same type: all protective gloves for electric insulation are of the same type.
b.Main type: among products of the same type, any category (voltage resistance) may be selected as
the main type.
c.Series of type: among products of the same type, categories (voltage resistant) other than the main type.
(3)Protective leather welding gloves
a.Same type: all protective leather welding gloves are of the same type.
b.Main type: among products of the same type, any category (fusing or gas welding) may be selected as the main type.
c.Series of type: among products of the same type, categories (fusing or gas welding) other than the main type.

9.Technical documents to be submitted with the application for RPC:
(1)Test reports for the glove material.
(2)Descriptions of quality assurance system.

10.Items to be tested for the type test:
(1)Rubber and plastic protective gloves for occupational health:
a.Main type: same as Clause 5(1).
b.Series of type (key items): tensile load, pinhole and impermeability of the product.
(2)Electrical safety rubber insulation gloves:
a.Main type: same as Clause 5(2).
b.Series of type: same as Clause 5(2).
(3)Protective leather welding gloves:
a.Main type: same as Clause 5(3).
b.Series of type: same as Clause 5(3).

11.Inspection Agency: Tainan Branch of the BSMI.

Chapter 3: Inspection Requirements for Safety Belts

12.Inspection standards and test items
(1)Safety belts for lineman: CNS 7543, all items.
(2)Fasten-type Safety belts: CNS 6701, all items.
(3)Full body harness: CNS 6701 on category, labeling and suspension rope related auxiliaries; CNS
14253, all items.

13.Sampling Principles for Batch-by-Batch Inspection
(1)Safety belts for lineman:
a.Category I (U-suspension type): 2 samples.
b.Category II (U and straight suspension type): 3 samples.
c.Category III (U and straight suspension type, with auxiliary hook): 3 samples.
(2)Fasten-type safety belts: 2 samples for each category, classified by different structures:
a.1A: with auxiliary belt, hook [belt ring] at the front end of the rope.
b.1B: with auxiliary belt, rope clip at the front end of the rope.
c.2A: without auxiliary belt, hook [belt ring] at the front end of the rope.
d.2B: without auxiliary belt, rope clip at the front end of the rope.
(3)Full body harness: 2 samples for each design.
(4)The Inspection Authority may seal the same number of samples mentioned in the preceding paragraphs and put them in the custody of the obligatory inspection applicant for re-inspection or re-testing.

14.Processing time of batch-by-batch inspection: 7 working days after the sampling.

15.Principles of Type Determination under RPC:

(1)Same type: product with the same safety belts and rope.
(2)Main type: among products of the same type, select any one as the main type.
(3)Series of type: among products of the same type, those with different buckle, ring, D-ring, D-buckle, rope clip (adjuster), hooks or materials.

16.The applicant apply for type test under RPC is required to provide documents specified in Clause
4(2)a.

17.Test Items of the type test:
(1)Main type: same as Clause 12.
(2)Series of type (key items): impact absorption test and strength test for all components.

18.Inspection Agency:
(1)Impact absorption test: Taichung Branch of the BSMI.
(2)Tests other than impact absorption: the 6th Division of the BSMI.

Chapter 4: Inspection Requirements for Protective Footwear

19.Inspection standards and test items
(1)Protective boots for occupational health:
a.CNS 12707, the appearance, outsole, impermeability of the final product, structure, sizes, material,
labeling and user manual.
b.Where the sizes of the products are decided by the agreement reached by the selling and buying parties, the Inspection Authority may accept the application for inspection/testing based on the agreed documents presented by the obligatory inspection applicant (for example, contracts or purchase orders) by following the requirements stated in the inspection standards. It is not necessary for the obligatory inspection applicant to obtain approval from the BSMI prior to the application for inspection/test.
(2)Safety footwear and protective footwear:
a.CNS 20345 for safety footwear; CNS 20346 for protective footwear.
b.Inspection/Test items:
(a)Design: Height of upper and Seat region (design B、C、D、E).
(b)Whole footwear: sole performance (construction, upper/outsole bond strength), toe protection (general, internal length of toecaps, impact resistance, compression resistance, behavior of toecaps), leak proofness, slip resistance.
(c)Upper: general, thickness, tear strength, tensile properties, flexing resistance, water vapor permeability and coefficient, pH value, hydrolysis and chromium VI content.
(d)Exterior: design, tear strength, abrasion resistance, flexing resistance, hydrolysis and interlayer bond strength.
(e)Labeling: in accordance with 7 (a), (b), (c), (d) and (f).
c.Key inspection/test items: whole footwear Impact resistance and compression resistance, and chromium VI content of the Upper.

20.Batch-by-batch Inspection
(1)Sampling Principles:
a.Protective boots for occupational health: samples taken from each category depending on the material (rubber or plastic) and test reagent classification respectively. For each category and test reagent classification, 2 pairs if the quantity of the batch is less than 2,000 pairs and 4 pairs if the quantity is more than 2,000 pairs.
b.The Inspection Authority may seal the same number of samples mentioned in the preceding paragraphs and put them in the custody of the obligatory inspection applicant for re-inspection or re-testing.
(2)Processing time of inspection: 10 working days after sampling.
(3)Inspection agency: Tainan Branch of the BSMI.

21.Type-Approved Batch Inspection
(1)For safety footwear and protective footwear that have already obtained Type Approval Certificate,
the Inspection Authority shall accept applications beginning on January 1, 2018.
(2)The Inspection Authority may carry out inspection in accordance with the following procedures to safety footwear and protective footwear of which the application is accepted:

a.Each batch has 20% of probability of sampling for inspection, batches that are not sampled shall be subject to documentary review, with a view to simplifying inspection procedures.
b.Where the products sampled are found not in compliance with the inspection requirements, subsequent products of the same type shall be inspected by batch. The sampling rate will be resumed to 20% after compliance of 3 consecutive batches.
c.2 pairs shall be taken from the batch being sampled for inspection, and shall be inspected/tested and their label verified according to Clause 19(2)c.
d.Processing time of inspection: 10 working days after sampling.
e.Inspection agency: Tainan Branch of the BSMI.

22.Principles of Type Determination:
(1)Protective boots for occupational health
a.Same type: products of the same category (rubber or plastic).
b.Main type: among products of same type, any reagent classification may be selected as the main type.
c.Series of type: among products of the same type, reagent classifications other than the main type.
(2)Safety footwear and protective footwear:
a.Same type: shoes of the same category and material (4 categories: rubber soles with other parts in leather and other materials, polyurethane foam soles with other parts in leather and other materials, soles and other parts all in rubber, soles and other parts all in plastic).
b.Main type: among products of the same type, the one with the most numerous functions. Where there are more than two designs (design A-low shoes, design B-ankle boots, design C-half-knee boots, design D-knee-height boots and design E-thigh boots) having the most numerous functions, any of the designs may be selected as the main type. If there are no safety footwear, then protective footwear is the main type. Where there are more than two designs (design A, B, C, D and E) having the most numerous functions, any of the designs may be selected as the main type.
c.Series of type: among products of the same type, the rest of the design and functions other than the
main type.

23.Technical documents and samples of products to be submitted along with the application under RPC or TABI scheme:
(1)Protective boots for occupational health:
a.Test reports for the materials of vamps and soles.
b.Descriptions of quality assurance system.
c.Samples:
(a)Main type: 2 pairs for each reagent classification.
(b)Series of type: 2 pairs for each reagent classification.
(2)Safety footwear and protective footwear:
a.Test reports for the materials of vamps and soles.
b.Where special functions are labeled on the product, test reports issued by testing laboratories accredited by Taiwan Accreditation Foundation (TAF) or members of International Laboratory Accreditation Cooperation (ILAC) indicating that testing is performed against relevant requirements regarding the special functions, and declarations.
c.Descriptions of quality assurance system.
d.Samples:
(a)Main type: 7 pairs. Vamp material identical to the finished product (including leather, coated fabric or textile, rubber or polymeric) shall be provided for type test, if it is not able to take the required size and weight for test from finished product.
(b)Series of type: 2 pairs

24.Type test items:
(1)Protective boots for occupational health:
a.Main type: same as Clause 19(1).
b.Series of type (key items): non-permeation of the final product, and toecap compression resistance
and toecap corrosion resistance for footwear products with metallic toecaps.
(2)Safety footwear and protective footwear:
a.Main type: same as Clause 19(2)b.
b.Series of type (key item): same as Clause 19(2)c.

25.Type-test agency
(1)Protective boots for occupational health: Tainan Branch of the BSMI.

(2)Safety footwear and protective footwear: Tainan Branch of the BSMI or BSMI designated testing
laboratories.

Chapter 5 – Inspection Requirements for Protective Helmets

26.Inspection standards and test items
(1)Protective helmets for drivers and passengers of motorcycles and mopeds: CNS 2396, all items.
(2)Protective helmets for pedal cyclists and protective helmets for skating and similar activities: CNS 13371, all items.
(3)Industrial protective helmets: CNS 1336, all items. Additional tests shall be conducted according to the performance claims on the label.
(4)Helmets for baseball activities: CNS 13338, all items.
(5)Helmets for soft baseball and softball use: CNS 13339, all items.
(6)Catcher helmets for baseball and softball activities: CNS 13340, all items.

27.Sampling Principles for Batch-by-Batch Inspection
(1)Protective helmets for drivers and passengers of motorcycles and mopeds:
a.With eye protector: 8 samples, 3 to be sealed and put in the custody of the obligatory inspection applicant for re-inspection.
b.Without eye protector: 8 samples, 4 to be sealed and put in the custody of the obligatory inspection applicant for re-inspection.
(2)Protective helmets for pedal cyclists: 5 samples.
(3)Protective helmets for skating and similar activities: 4 samples.
(4)Industrial protective helmets:
a.For prevention of injuries caused by falling or randomly projected objects: 6 samples.
b.For protection in the events of tumbling and falling: 6 samples.
c.Additional samples for protective helmets with performance claims on the label:
(a)For electrical insulation at high voltage: 1 sample.
(b)Ultra-low temperature: 2 samples (4 samples if two claims are labeled).
(c)Lateral rigidity: 1 sample.
(d)Flame resistance: 1 sample.
(5)For composite or multifunctional protective helmets for motorcycles and scooters, for bicycles, and for activities such as ice skating, the number of samples shall be increased according to the following types of accessories listed below:
a.Lithium battery (or battery packs): 1 sample.
b.Accessories within the scope of inspection (Bluetooth audio and video playing, and photography, etc., other than lithium batteries): 1 sample.
(6)Helmets for baseball activities, helmet for soft baseball and softball use, and catcher helmets for baseball and softball activities: 4 samples.
(7)For protective helmets other than protective helmets for drivers and passengers of motorcycles and moped, the Inspection Authority may seal the same number of samples mentioned in the preceding five paragraphs and put them in the custody of the obligatory inspection applicant for re-inspection.
(8)If commodities in the same batch contain different specifications (sizes), the Inspection Authority may request the obligatory inspection application to provide a list of different specifications (sizes), samples will be drawn from the specification (size) of the highest quantity.

28.Processing time of batch-by-batch inspection
(1)Protective helmets for drivers and passengers of motorcycles and mopeds, protective helmets for pedal cyclists, protective helmets for skating and similar activities, helmets for baseball activities, helmets for soft baseball and softball use, and catcher helmets for baseball and softball activities: 7 working days after sampling.
(2)Industrial protective helmets: 7 working days after sampling.
(3)Composite or multifunctional protective helmets for motorcycles and scooters, for bicycles, and for activities such as ice skating: 14 working days after sampling.

29.Principles of Type Determination under RPC:
(1)Protective helmets for drivers and passengers of motorcycles and mopeds:
a.Same type: products of the same category (general type or enhanced type), shell and impact absorbing padding.
b.Main type: among products of the same type, any product may be selected as the main type.
c.Series of type: among products of the same type, the shells, impact absorption padding, chinstrap

or buckle use different materials or the other components are different.
(2)Protective helmets for pedal cyclists and protective helmets for skating and similar activities:
a.Same type: products of the same shell, impact absorption and vents.
b.Main type: among products of the same type, any product may be selected as the main type.
c.Series of type: among products of the same type, the shells, impact absorption padding, chinstrap or buckle use different materials or the other components are different..
(3)Industrial protective helmets
a.Same type: products of the same shell, same harness and same category.
b.Main type: among products of the same type, any product may be selected as the main type.
c.Series of type: among products of the same type, the shells and harness use different materials, and the chinstrap with neck support (strap for back of head) is adjusted in a different way.
(4)Helmets for baseball, helmets for soft baseball and softball activities and catcher helmets for baseball and softball activities:
a.Same type: products of the same shell and impact absorption padding.
b.Main type: among products of the same type, any product may be selected as the main type.
c.Series of type: among products of the same type, the shell uses different materials.

30.Technical documents to be submitted along with the application for RPC:
(1)Protective helmets for drivers and passengers of motorcycles and mopeds: testing report for the material of shell, chinstrap and absorption padding.
(2)Protective helmets for pedal cyclists and protective helmets for skating and similar activities: testing report for the material of shell, absorption padding, chinstrap and buckle.
(3)Industrial protective helmets, helmets for baseball, helmets for soft baseball and softball activities, and catcher helmets for baseball and softball activities: testing report for the material of shell.

31.Type Test Items:
(1)Protective helmets for drivers and passengers of motorcycles and mopeds:
a.Main type: same as Clause 26(1).
b.Series of type (key items): impact absorption test and penetration resistance test for different shells; impact absorption test for different impact absorption paddings; chinstrap strengthening test and roll off test for different chinstraps or buckles.
(2)Protective helmets for pedal cyclists:
a.Main type: same as Clause 26(2).
b.Series of type (key items): impact absorption test for different shells or impact absorption paddings; chinstrap strengthening test and roll off test for different chinstraps or buckles.
(3)Protective helmets for skating and similar activities:
a.Main type: same as Clause 26(2).
b.Series of type (key items): impact absorption test for different shells or impact absorption paddings; chinstrap strengthening test for different chinstraps or buckles.
(4)Industrial protective helmets:
a.Main type: same as Clause 26(3).
b.Series of type: same as Clause 26(3).
(5)Helmets for baseball activities:
a.Main type: same as Clause 26(4).
b.Series of type (key items): impact absorption test.
(6)Helmets for soft baseball and softball activities:
a.Main type: same as Clause 26(5).
b.Series of type (key items): impact absorption test.
(7)Catcher helmets for baseball and softball activities:
a.Main type: same as Clause 26(6).
b.Series of type (key items): impact absorption test.

32.Inspection agency: Tainan Branch of the BSMI.

33.Industrial protective helmets for electrical insulation at high voltage shall be labelled "electrical insulation ability (7kV or under) and voltage test (20kV and 10mA or under)" in accordance with the inspection standards. If there is restriction on the voltage, for example under 440V, it may be added to the labeling content.

Chapter 6 – Inspection Requirements for Eye Protectors

34.Inspection Standards and Test Items

(1)Eye protector for welding:
a.Inspection standard: CNS 7177 and CNS 7175.
b.Test items:
(a)Transmittance (maximum spectral transmittance of ultraviolet, luminous transmittance, maximum mean spectral transmittance of infrared), variation in transmittance, quality of material and surface, ocular minimum robustness or ocular increased robustness, stability at an elevated temperature and marking in CNS 7177.
(b)Design and manufacture (general construction, headbands), dimensions, resistance to ignition and resistance to corrosion in CNS 7175.
c.Key Test Items:
(a)Transmittance (maximum spectral transmittance of ultraviolet, luminous transmittance, maximum mean spectral transmittance of infrared), stability at an elevated temperature and marking in CNS 7177.
(b)Resistance to ignition in CNS 7175.
(c)Variation in transmittance and ocular minimum robustness or ocular increased robustness are additionally tested in accordance with CNS 7177 for different lens materials.
(d)Design and manufacture (general construction, headbands) and dimensions are additionally tested in accordance with CNS 7175 for different structures.
(2)Eye protectors with filtering function (ultraviolet, infrared or industrial sun glare) or no filtering function:
a.Inspection standard: CNS 7177.
b.Test items: Design and manufacturing requirements (general construction, headbands), field of vision, spherical, astigmatic and prismatic refractive powers, transmittance (spectral transmittance and recognition of signal lights are additionally tested for eye protector with filtering function of industrial sun glare), variation in transmittance, quality of material and surface, ocular minimum robustness or ocular increased robustness, stability at an elevated temperature, resistance to corrosion, resistance to ignition and marking.
c.Key Test Items:
(a)Transmittance, stability at an elevated temperature, resistance to ignition and Marking.
(b)Spherical, astigmatic and prismatic refractive powers, variation in transmittance, ocular minimum robustness or ocular increased robustness are additionally tested for different lens materials. Spectral transmittance and recognition of signal lights are additionally tested for eye protector with filtering function of industrial sun glare.
(c)Design and manufacturing requirements (general construction, headbands), field of vision are additionally tested for different structures.
(3)Filters:
a.Inspection standard: CNS 7177.
b.Test items: Transmittance (maximum spectral transmittance of ultraviolet, luminous transmittance, maximum mean spectral transmittance of infrared), variation in transmittance, quality of material and surface, ocular minimum robustness or ocular increased robustness, stability at an elevated temperature, resistance to ignition and marking.
c.Key Test Items: transmittance (maximum spectral transmittance of ultraviolet, luminous transmittance, maximum mean spectral transmittance of infrared)
(4)Welding face shields:
a.Inspection standard: CNS 7175. Those with filter or with filtering function shall be tested in accordance with the preceding paragraphs.
b.Test items: design and manufacture (general construction, field of vision, materials, headbands, heat insulation, replacement), dimensions, area of coverage of welder's face shields and safety helmet mounted welder's face shields, resistance of welder's shields to damage when dropped, light reflectance of welder's shields, light attenuation of welder's shields, electrical insulation of welder's shields, resistance to ignition, resistance of welder's shields to hot penetration, resistance to corrosion, mass and marking.
c.Key Test Items:
(a)Resistance of welder's shields to damage when dropped, light reflectance of welder's shields, electrical insulation of welder's shields, resistance to ignition, resistance of welder's shields to hot penetration, mass and marking.
(b)Design and manufacture (general construction, field of vision, materials, headbands, heat insulation, replacement), dimensions, area of coverage of welder's face shields and safety helmet mounted welder's face shields, light attenuation of welder's shields are additionally tested for different structures.
(5)Eye protector for vehicular users: CNS 13370, all items.
(6)Eye-protection of helmets for pedal cyclists and similar activities: Section 8 of CNS 13371, all items; labeling in accordance with Sections 9.1(i) and 9.2(g) of CNS 13371.

35.Sampling Principles for Batch-by-Batch Inspection
(1)Eye protector for welding: 4 samples for each category (spectacle, front, and goggle), scale number, lens material and structure.
(2)Eye protectors with filtering function (ultraviolet, infrared or industrial sun glare) or no filtering function: 4 samples for each category (spectacle, front, goggle and face shield), scale number (a combination of the code number and the shade number), lens material and structure.
(3)Filters: 3 samples for each scale number.
(4)Welding face shields: 3 samples for each structure.
(5)Eye protector for vehicular users:
a.Goggle type: 4 samples if there are less than two hundred in a batch, 6 samples if there are less than four hundred in a batch, 8 samples if there are less than six hundred in a batch and 10 samples if there are more than six hundred in a batch.
b.Visor and helmet type: 10 samples (including 2 samples for protectors installed on the protective helmet).
(6)Eye-protection of helmets for pedal cyclists and similar activities:
a.Goggle type: 4 samples if there are less than two hundred in a batch, 6 samples if there are less than four hundred in a batch, 8 samples if there are less than six hundred in a batch and 10 samples if there are more than six hundred in a batch.
b.Visor and helmet type: 10 samples (including 2 samples for protectors installed on the protective helmet).
(7)The Inspection Authority may seal the same number of samples mentioned in the preceding 6 subclauses and put them in the custody of the obligatory inspection applicant for re-inspection or re-testing..

36.Processing time of batch-by-batch inspection: 7 working days after sampling.

37.Principles of Type Determination under RPC:
(1)Eye protectors for welding:
a.Same type: products of the same category (spectacle, front, and goggle).
b.Main type: among products of the same type, the one with the most numerous functions. Where there are more than one product having the most numerous functions, the one having the largest scale number is selected as the main type.
c.Series of type: among products of the same type, those having differences in scale number, lens material or structure other than the main type..
(2)Eye protectors with filtering function (ultraviolet, infrared or industrial sun glare) or no filtering function:
a.Same type: products of the same category (spectacle, front, goggle and face shield).
b.Main type: among products of the same type, the one with the most numerous functions. Where there are more than one product having the most numerous functions, the one having the maximum shade number of the scale number is regarded as the main type. Where the shade number is the same, the one having the maximum code number of the scale number is regarded as the main type.
c.Series of type: among products of the same type, those having differences in scale number (a combination of the code number and the shade number), lens material or structure other than the main type.
(3)Filters:
a.Type: all filters are of the same type.
b.Main type: among products of the same type, any scale number may be selected as the main type.
c.Series of type: among products of the same type, any scale number other than the main type.
(4)Welding face shields:
a.Same type: products of the same category (helmet or hand shield).
b.Main type: among products of the same type, any may be selected as the main type.
c.Series of type: among products of the same type, those with different material or structure other than the main type.
(5)Eye protectors for vehicular users:
a.Same type: products of the same category (goggle, visor, and helmet), material and eye-protecting component.
b.Main type: among products of the same type, any may be selected as the main type.
c.Series of type: among products of the same type, those with different colors or structures (connection methods to the helmet) other than the main type.
(6)Eye-protection of helmets for pedal cyclists and similar activities
a.Same type: products of the same category (goggle, visor, and helmet), material and eye-protecting component.

b.Main type: among products of the same type, any may be selected as the main type.
c.Series of type: among products of the same type, those having different colors or structures (the way attaching to the helmet) from the main type.

38.Testing reports for the material of lens, if not made of glass, shall be submitted together with the application for RPC. For eye protectors for welding, eye protectors with filtering function (ultraviolet, infrared or industrial sun glare) or no filtering function, filters and welding face shields, testing report from third-party laboratories indicating compliance with requirements for the claimed functions shall be provided.

39.Type Test Items:
(1)Eye protectors for welding:
a.Main type: same as Clause 34(1)b.
b.Series of type (key items): same as Clause 34(1)c.
(2)Eye protectors with filtering function (ultraviolet, infrared or industrial sun glare) or no filtering function:
a.Main type: same as Clause 34(2)b.
b.Series of type (key items): same as Clause 34(2)c.
(3)Filters:
a.Main type: same as Clause 34(3)b.
b.Series of type (key items): same as Clause 34(3)c.
(4)Welding face shields:
a.Main type: same as Clause 34(4)b.
b.Series of type (key items): same as Clause 34(4)c.
(5)Eye protectors for vehicular users:
a.Main type: same as Clause 34(5).
b.Series of type (key items): optical properties (parallelism, dioptric power and degree of transparency) shall be conducted for different colors; strength, cold resistance and adjustable items shall be conducted for different structures (connection methods with the helmets).
(6)Eye-protection of helmets for pedal cyclists and similar activities:
a.Main type: as specified in Clause 34(6).
b.Series of type (key items): optical properties (parallelism, dioptric power and degree of transparency) shall be conducted for different colors; strength, cold resistance and adjustable items shall be conducted for different structures (connection methods with the helmets).

40.Inspection Agency: Tainan Branch of the BSMI.

Attachments： Appendix 1 Table of the Registration of Product Certification Type Classification.odt
Appendix 2 Table of the Registration of Product Certification Type Classification.odt
Appendix 3 Table of the Registration of Product Certification Type Classification.odt
Appendix 4 Table of the Registration of Product Certification Type Classification.odt
Appendix 5 Table of the Registration of Product Certification Type Classification.odt
Appendix 6 Table of the Registration of Product Certification Type Classification.odt

Data Source：Ministry of Economic Affairs R.O.C.(Taiwan) Laws and Regulations Retrieving System