



**TÜVRheinland®**

**DIN CERTCO**

Precisely Right.



## **Certification Scheme**

**Eye Protection: Category III-Products acc. to PPE-  
Directive/Regulation  
(electrician Eye Protectors, IR-Protectors >100 °C etc.)**

in accordance with

**EC Directive 89/686/EEC,  
Regulation (EU) 2016/425  
legislation and standards**

(Edition: March 2017 )

## Foreword

DIN CERTCO was founded in 1972 by DIN Deutsches Institut für Normung e. V., is now part of the TÜV Rheinland Group and is the certification body for issuing DIN marks and other certification marks for products, persons, services as well as companies based on DIN standards and similar specifications. Due to its independence, neutrality, competence and many years of experience, DIN CERTCO enjoys a high reputation both at home and abroad.

In order to prove the functionality of the system and our competence as a certification body, we have been accredited, certified or recognised by independent domestic and foreign bodies in both the voluntary and legally regulated areas. [Our accreditations.](#)

Alongside the general terms and conditions in place at DIN CERTCO, this certification forms the basis for enabling providers of eye protectors of category-III according to the PPE-directive 89/686/EEC or regulation to obtain EC type-examination certificates / EU-type-examination certificates and/or other certificates of conformity from DIN CERTCO. In some cases, this can be combined with the right to label products with the "DIN-Geprüft" (DIN tested) certification mark or the "DIN*plus*" quality mark. By doing so, they demonstrate that their products meet all requirements of the EC Directives, regulation, legislation and standards.

The various certification marks create customer confidence: they can rest assured that an independent, neutral and specialist institution has carefully investigated and reviewed all the inspection criteria. External quality controls also ensure that product quality remains at a high level during ongoing manufacture. All of which provides operators with added value that will help them decide which products to purchase.

All certificate holders can be viewed on the DIN CERTCO website ([www.dincertco.de](http://www.dincertco.de)), which is updated on a daily basis.

## Start of validity

Regulation (EU) 2016/425 is applicable from 21<sup>st</sup> April 2018.

## Amendments

This certification scheme differs from the certification scheme "Category III-Products acc. to PPE-Directive" (2017-02) as follows:

- a) Insertation of reference 8.ProdSV

## Previous Editions

Certification scheme "Category III-Products acc. to PPE-Directive" (2017-02)

## Remark

The German version of this certification scheme shall be taken as authoritative. No guarantee can be given to the English translation.

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## 1 Scope of application

This certification scheme applies to the eye protectors listed in Annex A. Together with the additional test standards stated below, it includes all requirements necessary to award the certificates of conformity listed in this certification scheme.

This certification scheme establishes requirements for product testing and for quality assurance measures at the manufacturer.

The resolutions of the ZEK (central exchange of experience forum of notified bodies of Germany) and of the EK8 (exchange of experience forum no. 8 of notified bodies) are mandatory for DIN CERTCO. ZEK and EK8 are forums of the ZLS (central authority of the German federal states for safety). Additional mandatory are provisions of the ZLS for notified bodies.

In general, finished products are eligible for certification. For the purposes of this certification scheme, finished products are classed as all products deemed to be ready for use as regards their optical properties without the need for modifications such as countersinking, bending, hardening, coating or connection with other parts. Edging and cutting to size and shape are permitted, except for hardened safety glass. Eye protectors are classed as ready for use once they have been fitted with lenses.

## 2 Test and Certification Specifications

The following referenced documents form the basis for testing and certification. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- a) Standards according to Annex A
- b) EC Directive 89/686/EEC,
- c) Regulation (EU) 2016/425
- d) Product Safety Law ProdSG
- e) 8. ProdSV
- f) This certification scheme
- g) The General Terms and Conditions of DIN CERTCO
- h) The respective schedule of fees of DIN CERTCO

### 2.1 Product requirements

The requirements placed upon the products consist of legal provisions (Directive 89/686/EEC with obligatory EC type-examination certificate or Regulation (EU) 2016/425 with obligatory EU type-examination certificate) and further details and supplements contained in the standards. DIN CERTCO imposes its own additional requirements for particularly high-quality products and these forms the basis for DIN*plus* certification.

#### 2.1.1 Requirements of EC Directive 89/686/EEC or Regulation (EU) 2016/425

The Directive or Regulation states that eye protectors must provide adequate protection against all risks encountered.

#### 2.1.2 Normative requirements

The technical requirements and their inspection during the certification process at DIN CERTCO are set out in the applicable versions of the standards mentioned in Annex A.

### **2.1.3 Additional requirements for DINplus**

For certain products, additional product-specific requirements have been drawn up in order to guarantee a particularly high level of quality, safety and usability (see Annex B).

## **2.2 Manufacturing requirements**

The establishment and maintenance of an effective quality assurance system at the applicant is an essential prerequisite for consistently high product quality during series production.

The QA system must focus on the appropriate monitoring of production processes using suitable inspection devices, as well as employee qualifications. In particular, it must include precise specifications for the regular testing of manufactured products and for the associated test records.

When submitting an application, the applicant must specify all manufacturing sites. DIN CERTCO will then decide at which manufacturing sites a factory inspection is to be carried out.

### **2.2.1 (Initial) factory inspection**

#### **2.2.1.1 Initial factory inspection**

The initial factory inspection determines whether the applicant has introduced and is using a suitable quality assurance system that includes internal monitoring of its own production processes.

DIN CERTCO will conduct the initial factory inspection using a standard questionnaire and subsequently draw up a written report on the findings of the factory inspection.

The inspector will also fill in a report if any sampling is carried out.

#### **2.2.1.2 Factory inspection**

Factory inspections are carried out generally on an annual interval. The procedure is described in section 2.2.1.1. Factory inspection is conducted either by DIN CERTCO.

During the factory inspection, the inspector also examines the packaging and instructions for use as regards the certification marks, type identification, manufacturer name etc.

Factory inspections for category III products are generally to be combined with product sampling by DIN CERTCO.

#### **2.2.1.3 Review of (initial) factory inspection**

Based on the factory inspection report (or nonconformity report, if applicable), the inspector issues a recommendation that is reviewed by the certification body. The assessment of the (initial) factory inspection is based on the requirements of ZEK-GB-2006-01. The applicant receives the abridged report of the (initial) factory inspection on site.

If the findings of the (initial) factor inspection are positive, type testing is subsequently carried out. If, however, the factory inspection identifies failings, DIN CERTCO will agree upon the further procedure with the customer.

All records and documents relating to the (initial) factory inspection will be stored and reviewed at DIN CERTCO.

#### **2.2.1.4 QA-certificate**

If applicants pass the (initial) factory inspection without significant nonconformities being identified, they can request a certificate of the positive result of the (initial) factory inspection. The QA certificate remains valid for one year.

### **3 Certification process**

#### **3.1 EC type-examination or EU type-examination for category III products**

Products listed under category III in EC Directive 89/686/EEC or Regulation (EU) 2016/425 are subject to mandatory annual quality controls by an appointed body. For this product category an annual quality control of the product and the production site is regulated by law.

##### **3.1.1 Application**

The applicant submits the corresponding completed and signed application forms to DIN CERTCO together with the number of samples specified by DIN CERTCO of the type to be certified.

##### **3.1.2 Testing**

DIN CERTCO carries out the tests specified in the test plan. If individual component tests are to be subcontracted, DIN CERTCO will inform the applicant accordingly in the quotation or order confirmation.

The test results are collated in a test report.

##### **3.1.3 Review**

DIN CERTCO reviews the test results in terms of conformity with the requirements in the corresponding harmonized standards and with the essential requirements of annex II of the EC Directive 89/686/EEC or the Regulation (EU) 2016/425.

If repeated nonconformities are identified, a nonconformity report is drawn up and the EC type-examination certificate or EU type-examination certificate is rejected for this type. Other certification bodies and the ZLS (Central Authority of the German Federal States for Safety) are informed of this decision in writing.

### **3.1.4 EC type-examination certification or EU type-examination certification**

If the result of the assessment is positive, DIN CERTCO awards the EC type-examination certificate or EU type-examination certificate ("CE certificate") for the product. The EC type-examination certificate or EU type-examination certificate is valid for a period of 5 years. The extension of EC type-examination certificates upon expiry of this 5 year period will be performed in line with the annual product tests.

In addition, the certificate holder must inform the notified body about any changes made to the product. The scope of testing will then be arranged with DIN CERTCO on a case by case basis. The certificate holder must apply for an updated EC type-examination certificate or EU type-examination certificate in this case.

### **3.1.5 Quality control**

An inspection of the production site as well as a monitoring product testing has to be performed once a year. The samples for these tests are taken from the production line or warehouse of the production site by DIN CERTCO. The tests carried out are designed to verify that the test samples correspond in their entirety with the specimens presented for the initial inspection.

The certificate holder is informed of the positive results of the planned quality control measures in writing.

If the planned quality control measures yield negative results, DIN CERTCO is discussing the further steps and the applicable countermeasures with the manufacturer. This also applies if unplanned measures yield negative results.

All nonconformities are documented and this is included in the documents used for the next factory inspection. The causes are investigated during the next factory visit.

## **3.2 DIN-Geprüft, DIN*plus* certification**

Category III-products are in general subject to an annual quality control inspection. For a DIN*plus* certification one product test with increased scope of testing will be carried out during the period of validity of the certificate and for renewal of the certificate.

### **3.2.1 Application**

See section 3.1.1

### **3.2.2 Testing**

See section 3.1.2

### **3.2.3 Conformity assessment**

The conformity assessment determines whether the test results obtained and the findings of the (initial) factory inspection are up to date, complete and in accordance with the relevant standards, as well as whether a consistently high level of manufacturing quality can be expected.

### 3.2.4 Issuing of the certificate

If the tests and subsequent assessment prove that the product is in full conformity with the requirements, the applicant receives a certificate and the right to use the appropriate certification mark. The period of validity is usually five years.

### 3.2.5 Quality control

See section 3.1.5

After 2 years in addition to the quality control inspection a (partial) test of the product will be carried out. The scope of the planned quality control inspection is based on the table in Annex C. The scope of the unplanned inspections is decided on a case-by-case basis.

### 3.2.6 Renewal

The tests are repeated in good time prior to expiry of the certificate validity so that the certificate can be renewed. As with tests carried out for quality control purposes, in some cases the renewal tests can also be carried out with a reduced scope as regards the test criteria and number of test samples (see Annex C). The scope of testing is determined by the certification body.

## 4 Further regulations

### 4.1 Registration numbers

Format of registration numbers:

EC type-examination certificate / EU type-examination certificate: CxxxXYZ/Rx

DIN-Geprüft: DxxxxXYZ/Rx

DIN*plus*: PxxxxXYZ/Rx

QS-certificate: QxxxxXY/Rx

### 4.2 Publications

All certificate holders can be viewed on the daily up-dated homepage of DIN CERTCO ([www.dincertco.de](http://www.dincertco.de)) under <Certificate Holders>. Manufacturers, users and consumers use this research possibility for obtaining information on certified products.



## Annex A Scope of application and test standards

The following products and test standards are covered by this certification scheme

Nr.	Product	Standard/test basis
<b>1</b>	<b>Eye protectors Category III acc. to PPE-Directive</b>	
<b>1.1.</b>	<b>Products</b>	
	Protective face shields for live working against electric shock	DIN EN 166 / DIN EN 170 / GS-ET-29
	IR protection filters for high-temperature environments the effects of which are comparable to those of an air temperature of at least 100 °C;	DIN EN 166 / DIN EN 171
<b>1.2.</b>	<b>Additional test basis</b>	
	Personal eye protection - Vocabulary	DIN EN ISO 4007
	Personal eye protection - Optical test methods	DIN EN 167
	Personal eye protection - Non-Optical test methods	DIN EN 168

Further products and standards on request

**Annex B Additional requirements for DINplus**

Product	Refractive power	Diffusion of Light	Transmittance requirements	Resistance to UV radiation	Other
UV protection faceshields for live working	Spherical $\leq 0.06$ dpt Astig. $\leq 0.06$ dpt Prism. $\leq 0.5$ cm/m B.a. Prism. $\leq 0.12$ cm/m B.i. Prism. $\leq 0.15$ cm/m vert	$\leq 0.2$ cd/m <sup>2</sup> /lx	$\tau \leq 0.3$ % for UV protection filters with prefix 2C / 3 in the spectral range from 313 to 365 nm	$\leq 80$ % of standard re- quirements	
IR protection faceshields	Spherical $\leq 0.06$ dpt Astig. $\leq 0.06$ dpt Prism. $\leq 0.5$ cm/m B.a. Prism. $\leq 0.12$ cm/m B.i. Prism. $\leq 0.15$ cm/m vert	$\leq 0.2$ cd/m <sup>2</sup> /lx	IR Transmittance: $\leq 80$ % of standard requirements	$\leq 80$ % of standard re- quirements	

Further products and standards on request

**Annex C Minimum characteristics subject to test for the annual category III controls and quality control for DIN-Geprüft or DIN*plus* mark**




	Spherical powers S, prism. power difference P	Diffusion of light	Mechanical strength (maximum level)	Drop Test	Transmittance requirements	UV-radiation stability	Temperature stability	OD-measurements	Switching time -5°C +55°C	Homogeneity	Angle dependence	Lateral protection / area of protection	Hot penetration	Surface damage by fine particles
UV protection faceshields for live working	1	2	2		2	2				2				
IR protection faceshields	1	2	2		2	2				2				

Key:

Number:                                      Number of tests

For products that are not listed in the above table, the scope of testing for quality control purposes must be agreed separately with DIN CERTCO.

**Annex D Comparison of the CE marking and test marks (quality marks) for PPE**

Mark			
Name	DIN-Geprüft	Category III Products	DINplus
<b>Use</b>	Voluntary	CE mandatory, DIN voluntary, <b>no</b> GS	voluntary, the PLUS in Quality
<b>Basic principle</b>	Confirmation by DIN CERTCO (DC) that the product conforms to the relevant DIN standards	DC issues a EC-type examination certificate or EU type-examination certificate, that the product complies with the Directive or Regulation	Confirmation by DC that the product conforms to the relevant DIN standards and fulfils also higher requirements
<b>Legal basis</b>	DIN-standards	Directive 89/686/EWG or Regulation (EU) 2016/425, harmonized DIN EN-standards	DIN standards, additional requirements according to certification program
<b>Product quality controls</b>	yes, after 2 years (partial testing possible)	yes, annually (partial testing possible)	yes, after 2 years (partial testing possible)
<b>Inspection of the manufacturing sites (Audit)</b>	yes, after max. 3 years	yes, annually	yes, after max. 3 years
<b>Sampling for Product quality controls</b>	yes, if audit is performed in this year, otherwise samples sent off	yes	yes, if audit is performed in this year, otherwise samples sent off
<b>Validity of the certificate</b>	Maximum of 5 years (recertification is possible, although partial testing is required as a minimum)	CE: 5 years DIN: maximum of 5 years (recertification is possible, for that audit, sample picking and at least partial testing necessary)	Maximum of 5 years (recertification is possible, although partial testing is required as a minimum)
<b>Language</b>	de and/or en	de and/or en	de and/or en