TÜVRheinland®
DIN CERTCO
Precisely Right.

Certification Scheme

Eye Protection: Category I-Products acc. to PPE-Directive/Regulation and Non-PPE Products (sun glasses, ski goggles, workstation screens, Ophthalmic optics etc.)

in accordance with

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

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Foreword

DIN CERTCO was founded in 1972 by the DIN German Institute for Standardisation and is responsible for awarding recognised DIN marks. It certifies products, individuals, services and companies in line with DIN standards and other similar specifications.

In order to prove our impartiality, independency and competence, we are voluntary accredited according to DIN EN ISO/IEC 17065. For the satisfaction and trust of our clients and their data, we maintain furthermore a certified

- Quality Management System according to DIN EN ISO 9001
- Environmental Management System according to DIN ISO 14001
- Information Security Management System according to DIN ISO/IEC 27001
- Occupational Health and Safety Management System according to OHSAS 18001

Alongside the general terms and conditions in place at DIN CERTCO, this certification forms the basis for enabling providers of eye protectors of category I according to the PPE-directive 89/686/EEC or regulation as well as non-PPE products to obtain 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, the “DIN*plus*” quality mark or the GS mark. By doing so, they demonstrate that their products meet all requirements of the EC Directives or 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), which is updated on a daily basis.

Start of validity

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

Amendments

This certification scheme differs from the certification scheme “Category I-Products acc. to PPE-Directive and Non-PPE Products “ (2017-02) as follows:

a) Insertation of reference 8.ProdSV

Previous Editions

Certification scheme “Category I-Products acc. to PPE-Directive and Non-PPE Products “ (2017-02)

Remark

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

CONTENTS

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 citied 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 or Regulation (EU) 2016/425 and the Product Safety Law (ProdSG) with voluntary GS mark) 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 DIN*plus*

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 (DIN-Geprüft, DIN*plus*, GS)

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 at regular intervals. The procedure is described in section 2.2.2.1. The factory inspection is conducted by DIN CERTCO. The frequency of factory inspections is generally:

- Annual for GS marks
- After a maximum of three years for DIN-Geprüft and DIN*plus* marks

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

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. ZEK-GB-2006-01 is used as the basis for evaluating the (initial) factory inspection. 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 up to three years.

3 Certification process

3.1 Certificate of conformity

DIN CERTCO can provide manufacturers with a voluntary certificate of conformity if their products meet the relevant normative requirements. Quality controls will not be carried out.

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

For category-I products DIN CERTCO reviews the test results in terms of conformity with the related standards. For non-PPE products the corresponding standards will be the basis for the evaluation.

3.1.4 Declaration of conformity

For positive test results DIN CERTCO will issue a declaration of conformity for the product. The declaration of conformity is valid for one type. Monitoring tests are not carried out. The holder of the declaration of conformity must order a new declaration of conformity if product changes are done.

3.2 Certification DIN-Geprüft without factory inspection

For season related products (like for instance sun glasses or ski goggles) or if ready-made materials are only tailored (like for instance workstation screens), it is possible to get the right to use the above mentioned quality marks granted without a factory inspection. Hereby the validity of the certificate is limited to one year. For renewal of the certificate (partial) tests of the product have to be performed.

3.2.1 Application

See section 3.1.1

3.2.2 Initial testing

The initial testing is carried out in line with the requirements detailed in section 3.1.2. The applicant receives a test report that includes the test results.

3.2.3 Conformity assessment

The conformity assessment determines if the test results obtained 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 evaluation 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 one year.

If there are serious failures to meet the requirements of this certification scheme, the applicant will not receive a certificate. Instead, a nonconformity report is drawn up that lists all defects discovered during testing.

3.2.5 Monitoring tests

No monitoring is carried out.

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 carried out with a reduced scope as regards the test criteria and number of test samples (see Annex C and Annex D). The scope of testing is determined by the certification body.

3.3 Certification DIN-Geprüft, DIN*plus* with factory inspection

In addition to the requirements detailed in section 3.1, for this certification an initial factory inspection and a quality control inspection of the product and production are carried out during the validity of the certificate.

3.3.1 Application

3.3.1.1 New DIN-Geprüft-, DIN*plus* customers

See section 3.1.1

In addition, the applicant will agree upon a date for the initial factory inspection with DIN CERTCO.

3.3.1.2 Existing DIN-Geprüft-, DIN*plus* customers

See section 3.1.1

Product sampling is also carried out or the manufacturer sends the required number of test items to DIN CERTCO.

3.3.2 (Initial) factory inspection

3.3.2.1 Initital factory inspection for new DIN-Geprüft-, DIN*plus* customers

See section 2.2.1.1

3.3.2.2 Factory inspection for existing DIN-Geprüft-, DIN*plus* customers

See section 2.2.1.2

3.3.3 Initial testing

The initial testing is carried out in line with the requirements detailed in section 3.1.2. The applicant receives a test report that includes the test results.

3.3.4 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.

3.3.5 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.

If there are serious failures to meet the requirements of this certification scheme, the applicant will not receive a certificate. Instead, a nonconformity report is drawn up that lists all defects discovered during testing.

3.3.6 Monitoring tests

At least one factory inspection and one product test will be carried out during the period of validity of the certificate.

DIN CERTCO will take the samples for the quality control test during a factory inspection if a factory inspection is due during this period (see section 2.2.1.2). However, the product may also be sent by the manufacturer.

The scope of the planned quality control inspection is based on the table in Annex C and Annex D. The scope of the unplanned inspections is decided on a case-by-case basis.

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.

3.3.7 Renewal

The factory inspection and 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 carried out with a reduced scope as regards the test criteria and number of test samples (see Annex C and Annex D). The scope of testing is determined by the certification body.

3.4 GS-mark (together with DIN-Geprüft, DIN*plus*)

The following are mandatory prescribed activities for awarding the GS mark:

- Initial factory inspection with product sampling
- Testing of product characteristics
- Regular monitoring of production (usually on an annual basis)
- Market monitoring

The GS mark may only be awarded to products that are deemed ready for use under the Product Safety Law (ProdSG).

3.4.1 Application

3.4.1.1 New GS-customers

See section 3.1.1

The applicant also agrees upon a date for the initial factory inspection with DIN CERTCO.

3.4.1.2 Existing GS-customers

See section 3.1.1

Product sampling is also carried out.

3.4.2 (Initial) factory inspection

3.4.2.1 Initial factory inspection for new GS customers

See section 2.2.1.1

3.4.2.2 Factory inspection for existing GS customers

See section 2.2.1.1

3.4.3 Testing

Type testing is usually carried out by DIN CERTCO. In special cases, however, DIN CERTCO can instruct one of its approved test laboratories to carry out the testing in line with the requirements of ZEK-GB-2012-01. The manufacturer will be informed of this in writing. Harmonized EN standards are generally used as the basis for testing.

The test laboratory compiles the test results in a report that contains all information required for the subsequent evaluation.

3.4.4 Conformity assessment

See section 3.3.4

3.4.5 Issuing of the certificate

See section 3.3.5

The certification body has to arrange the next factory inspections in line with this assessment.

3.4.6 Monitoring tests

One factory inspection is generally carried out each year (see section 2.2.1.2). This inspection, DIN CERTCO will take the test samples required for quality control purposes (usually done once during the monitoring period).

The scope of the planned quality control inspection is based on the table in Annex C and Annex D. The scope of the unplanned inspections is decided on a case-by-case basis.

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

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 certificate holder. 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.

3.4.7 Renewal

See section 3.3.7

3.4.8 Quick query for GS marks

DIN CERTCO supports all initiatives designed to help prevent misuse of the GS mark. In order to effectively counter misuse of this mark, the German Federal Ministry of Labor and Social Affairs, the ZLS and the German trade associations have agreed upon a joint procedure. This involved the creation of a quick query process which enables dealers to send a fax to the authorized body. Within 24 hours, dealers can determine whether or not a valid certificate exists for the GS mark assigned to a product. The registered contact for DIN CERTCO is the company's Berlin office.

4 Further regulations

4.1 Registration numbers

Format of registration numbers:

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) 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
1.	**Eye protectors category I accord. PPE Directive or Regulation**	
	Sunglasses for general use	DIN EN ISO 12312-1
	Ski goggles	DIN EN 174
3.	**Workstation screens**	
	Welding screens (curtains, strips)	DIN EN ISO 25980
	Screens for laser working places	DIN EN 12254
4.	**Ophthalmic optics**	
	Spectacle lenses	DIN EN ISO 14889
	Spectacle frames	DIN EN ISO 12870
	Ready-to-wear spectacles	DIN EN 14139
5.	**Additional test basis**	
	Personal eye protection - Optical test methods	DIN EN 167
	Personal eye protection - Non-Optical test methods	DIN EN 168
	Personal protective equipment - Eye and face protection - Vocabulary	DIN EN ISO 4007
	Personal protective equipment – Test methods for sunglasses and related eyewear	DIN EN ISO 12311

Further products and standards on request

Annex B Additional requirements for DIN*plus*

Product	Refractive power	Diffusion of Light/ Haze	Transmittance requirements	Resistance to UV radiation	Other
Ski goggles	Spherical ≤ 0.06 dpt Astig. ≤ 0.06 dpt Prism. ≤ 0.5 cm/m B.a. Prism. ≤ 0.12 cm/m B.i. Prism. ≤ 0.15 cm/m vert	Sing. layer ≤ 0.5 $cd/m^2/lx$ Doub. layer ≤ 1.0 $cd/m^2/lx$	UV: ≤ 80 % of standard requirements	≤ 80 % of standard requirements. if standard requires testing	
Welding screens			210 to 313 nm: ≤ 0,001 % > 313 to 400 nm: ≤ 1 % Hazard level G ≤ 0,8		glow time < 2 s

Further products and standards on request

Annex C Minimum characteristics subject to quality controls for the DIN-Geprüft mark

	Refraction powers , prismatic difference,	Diffusion of Light / Haze	Mechanical strength	Transmittance requirements	Resistance to UV radiation	Temperature resistance	Reflection Requirements	Dimensional stability at elevated temperatures	Mechanical strength	Homogeneity	Resistance to ignition	Hot penetration	Surface damage by fine particles
Sunglasses for general use	+			+									
Ski goggles	+	+	+	+									
Ready-to-wear spectacles	+		+					+	+				
Prescription lenses	+		+	+									
Spectacle frames			+					+					
Welding screens				+	+		+				+		
Screens for laser working places			+	+	+						+		

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 Minimum characteristics subject to quality controls for the DIN*plus* mark

	Refraction powers , prismatic difference,	Diffusion of Light / Haze	Mechanical strength	Transmittance requirements	Resistance to UV radiation	Reflection requirements	Homogeneity	Resistance to ignition	Hot penetration	Surface damage by fine particles
Ski goggles	+	+	+	+	+					
Welding screens				+	+			+		

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 E Comparison of test marks (quality marks) for PPE

Mark			
Name	**GS mark**	**DIN*plus***	**DIN-Geprüft**
Use	Voluntary, usually combined with DIN-Geprüft	Voluntary, a PLUS for quality	Voluntary
Basic principle	Confirmation by DIN CERTCO (DC) that the product conforms to safety and health legislation (ProdSG) and the relevant harmonized DIN standards	Confirmation by DC that the product conforms to the relevant DIN standards and meets additional requirements	Confirmation by DC that the product conforms to the relevant DIN standards
Legal basis	Directive 89/686/EEC, Regulation (EU) 2016/425, Product Safety Law (ProdSG),	DIN standards, additional requirements for interim testing	DIN standards
Product quality controls	Yes, after 2 years (partial testing is possible)	Yes, after 2 years (partial testing is possible)	Yes, after 2 years (partial testing is possible) or annual type inspection (without audit)
Inspection of manufacturing sites (audit)	Yes, annually (evaluated in accordance with ZEK-GB-2006-01)	Yes, after max. 3 years	Yes, after max. 3 years or annual type testing
Sampling for product quality controls	Yes, after 2 years	Yes if an audit is carried out during this year, otherwise sample sent off	Yes if an audit is carried out during this year, otherwise sample sent off
Validity of the certificate	Usually 5 years (extension is possible, although partial testing is required as a minimum)	Maximum of 5 years (recertification is possible, although partial testing is required as a minimum)	5 years (with audit) 1 year (without audit) (extension is possible, although partial testing is required as a minimum)
Language	DE, EN only as additional option	DE and/or EN	DE and/or EN