

TÜV Rheinland LGA Products – Information

Update of EN ISO 20345:2011

EN ISO 20345:2022 – PERSONAL PROTECTIVE EQUIPMENT – SAFETY FOOTWEAR

Within the framework of various standard updates for PPE footwear, the requirement standard for safety footwear, EN ISO 20345:2011, has also been updated. Compared to EN ISO 20345:2011, there are various minor and major changes.

Manufacturers and distributors are responsible for keeping their personal protective equipment (PPE) up to date with the latest technology. As soon as the new standard is published, the manufacturer is obliged under PPE Regulation 2016/425 to independently check whether his product complies with the applicable requirements and, if necessary, to carry out testing and adaptation in accordance with the new

standard. TÜV Rheinland reliably supports you with the tests in order to keep your products up to date with the latest technology.

We have summarized the following basic innovations for you:

CLASSIFICATION AND MARKING CATEGORIES OF SAFETY FOOTWEAR

In addition to Class I and II, there is a new classification (hybrid footwear) and new categories for marking SB, S1–S7, S7L, S7S, SBH

MARKING AND NEW SYMBOLS

Slip resistance

Symbol SR: (additional requirement)

Requirement for slip resistance has been revised.

The SRA, SRB and SRC markings were eliminated and new markings were introduced:

- The symbol "Ø" stands for "not tested",
- No more marking (= n.m.) for testing of condition A+B,
- Symbol SR stands for testing of condition C+D.

basic requirements

(n.m. or Ø)

condition A

Forward heel slip
ceramic tile, NaLS

condition B

Backward forepart slip
ceramic tile, NaLS

additional requirements

(SR)

condition C

Forward heel slip
ceramic tile, glycerine

condition D

Backward forepart slip
ceramic tile, glycerine

MARKING AND NEW SYMBOLS

Perforation resistance	<p>New symbols: (additional requirement)</p> <ul style="list-style-type: none">▪ Type P metallic perforation-resistant inserts▪ Type PL non-metallic perforation-resistant inserts and insoles (test nail: diameter 4.5 mm ± 0.05 mm)▪ Type PS non-metallic perforation-resistant inserts and insoles (test nail: diameter 3.0 mm ± 0.03 mm)
Water penetration and absorption	<p>Symbol WPA: (additional requirement) Symbol WRU has been changed to symbol WPA</p>
Scuff cap abrasion	<p>Symbol SC: (additional requirement) new testing</p>
Ladder grip	<p>Symbol LG: (additional requirement) new testing</p>
Marking of safety footwear	<ul style="list-style-type: none">▪ Manufacturer's name and postal address▪ At least year and month of footwear manufacture

FURTHER CHANGES

New tests have been added, such as the seam strength of hybrid safety footwear.

Some tests and evaluation procedures have been changed. These include toe protection, water vapor permeability, abrasion of insoles, thickness and flexing resistance of the outsole, metatarsal and ankle protection and heat insulation of outsole complex.

The implementation standard EN ISO 20344:2021 also brings some changes to the test procedures as well as the type and number of samples to be tested and the exact specification of the result presentation (individual values, average value, highest or lowest value) in the test report.

The requirements for orthopedic customized safety footwear, divided into three types:

- Type 1 – Equipped with customized insoles
 - Type 2 – Modified safety footwear
 - Type 3 – Bespoke safety footwear
- have been newly included in the standard.

There is also comprehensive information about the obsolescence, the "assessment of the footwear by the wearer" and the slip resistance with SR and Ø marking codes.

SUMMARY

- You as manufacturer/marketer are responsible to keep your product up to date. If applicable, additional testing shall be carried out in accordance with the new EN ISO 20345:2022.
- With the harmonization and publication of EN ISO 20345:2022 in the Official Journal of the EU, the presumption of conformity will be reversed. This means that you, as the manufacturer, must demonstrate that your products which were certified according to EN ISO 20345:2011 continue to comply with the requirements of the PPE Regulation Annex II.

- The marking of your product and your Technical Documentation according to PPE Regulation 2016/425 including the Instructions for Use must be updated to the latest state of the art.

WE OFFER YOU THE FOLLOWING SERVICES FOR THE CONVERSION TO THE NEW STANDARD

- Testing of the chemical and physical parameters of your PPE footwear.

Do you have any questions or would you like a quote?
Please feel free to contact us!

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