IEC TR 62730

Edition 1.0 2024-06

TECHNICAL REPORT

colour inside

AMENDMENT 1

HV polymeric insulators for indoor and outdoor use tracking and erosion testing by wheel test and 5 000 h test

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HV POLYMERIC INSULATORS FOR INDOOR AND OUTDOOR USE TRACKING AND EROSION TESTING BY WHEEL TEST AND 5 000 H TEST

AMENDMENT 1

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Amendment 1 to IEC TR 62730:2012 has been prepared by IEC technical committee 36: Insulators.

The text of this Amendment is based on the following documents:

Draft	Report on voting
36/596/DTR	36/601/RVDTR

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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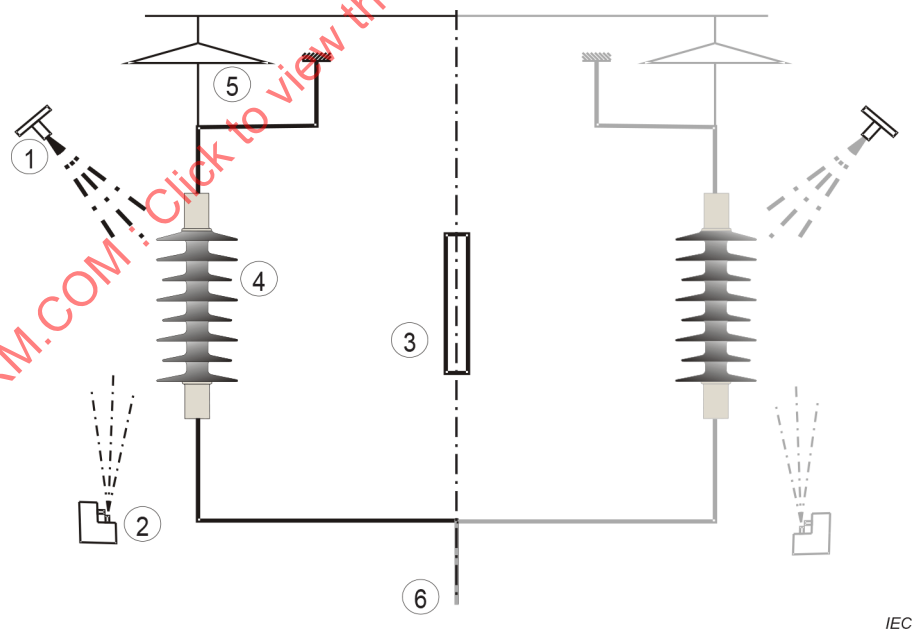
7.2.2 Procedure

Renumber the existing Note to 7.2.2.2 as Note 1 and add the following new Note 2 at the end of 7.2.2:

NOTE 2 Chambers with a size larger than 20 m^3 can be used in order to allow testing of full-size objects if the criteria for calibration and environment (e.g. time to reach temperature during dry heat period) are fulfilled.

Figure 4 – Typical layout of the rain and salt fog spray systems and the xenon lamp

Replace existing Figure 4 with the following new figure:



7.2.9 Pollution

Replace the existing text of the second, third and fourth paragraphs of 7.2.9 with the following new text:

The spray nozzles are mounted close to the bottom of the chamber and spray upwards towards the roof of the chamber. The fog should fill up the chamber and not be directly sprayed on to the test specimen. Salt water prepared from NaCl dissolved in tap water should be supplied to the spray nozzles. The fog intensity and uniformity should be maintained in the specimen's exposure zone.

7.2.10 Salt fog calibration

Replace the existing text of 7.2.10 (including Figure 6) with the following new text:

The calibration will be carried out before the start of the test.

At least two clean collecting receptacles with a collecting area of 8 000 mm^2 ± 2 000 mm^2 and a maximum height of 100 mm each are placed as close as practical to the position of the ends of the test object. The receptacles are positioned in such a way that they are not shielded by the test specimens and to avoid dripping from the construction elements of the chamber or another source.

They should collect between 1,5 ml and 2,0 ml of precipitation per hour (corrected to 8 000 mm^2 collecting area) averaged over a minimum period of 16 h.

NOTE The flow rate necessary to obtain such precipitation (typically of the order of 0,3 l/m^3h based on a chamber not larger than 15 m^3) should be noted. (The water flow rate is defined in litres per hour and per cubic meter of the test chamber volume.) Subsequently during the test, the flow rate should be checked at least every 100 h and should remain within ± 25 % of the initial value.

It is not permitted to re-circulate the water.