



Automatización Eléctrica
Especialistas en Automatización

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INDELIBILITY

CEI 23-11 equivalent to CEI EN 61058-1

Device switches
Part 1: General indications
Paragraph 8.9

and

CEI EN 61439

Low-voltage
switchgear and controlgear assemblies
Part 1 : General rules
Paragraph 10.2.7 Marking

By rubbing 15 times in approx. 15 seconds with a cloth soaked with distilled water, followed by rubbing 15 times in approx. 15 seconds with a cloth soaked with solvent Hexane. During the tests, the soaked cloth must be applied to the print with a pressure of about 2N/cm².

At the end of the test, the print should still be legible.

Solvent Hexane used by Cembre: Sigma-Aldrich
Hexane 32293 CAS.no 110-54-3

CEI EN 61010-1 Ed.2 equivalent to VDE 0411-1

Safety indications for electric devices
for measurement, control and laboratory use
Part 1: General indications

This regulation requires that both material and the print shall withstand, cleaning with chemical agents commonly used in industry. By rubbing manually by hand, without excessive pressure, for 30 seconds with a cloth soaked in the specific detergent or, if not specified, Isopropyl Alcohol.

CEMBRE INTERNAL TEST

This test was created to simulate cleaning with chemical products commonly used on various surfaces. By wiping with a cloth soaked in 95% Ethanol 30 times and making a visual inspection after every 10 passes.

SALINE MIST

EN ISO 9227

Environmental Testing
Part 2: Tests - Test Ka: Salt mist

The test methods listed by the standard are the following:

- Concentration of 50 ± 5 g/l of Sodium Chloride;
- pH of the solution between 6.5 and 7.2;
- Temperature inside the cabin $35 \pm 2^\circ\text{C}$.

Self-adhesive media are applied to plastic surfaces, while cable markers are applied to cables with PVC insulation.

After the test, the samples must undergo a visual examination and, if necessary, electrical and mechanical controls as required by appropriate regulations.

At the end of the test, the print should still be legible.

RESISTANCE TO ABRASION AND FRICTION

CEI EN 16-7

Elements to identify terminals and cable endings
Paragraph 7.2 Indelibility

After printing, legibility of the print is checked by visual examination; it is also verified visually after manually rubbing 10 times with a cotton flock soaked in water and again for another 10 times with a cotton flock soaked in pure Hexane. At the end of the test, the print should still be legible.

Solvent Hexane used by Cembre: Sigma-Aldrich
Hexane 32293 CAS.no 110-54-3

RESISTANCE TO SOLVENT VAPOUR

CEI EN 60464-2

Resistance to solvent vapour is verified by the condition of the test sample following exposure.

The standard requires the sample to be placed in a container of the specified solvent.

The test samples must be suspended vertically with the lower edge around

150 mm above the surface of the test solvent. During the exposure, the liquid must not evaporate completely and, if necessary, must be topped up. The temperature of the test solvent must be $23 \pm 2^\circ\text{C}$ and the duration of exposure must be $168\text{h} \pm 1$ (seven days). After removal from the container, each test sample must be examined to determine whether there has been any change in appearance, loss of adherence of the sub layer, exfoliation, detachment, bulging or other signs of deterioration.

Solvents used by Cembre are: Acetone (not for PVC material), Ethanol, Hexane

Except to PET transparent material.

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