

Test paper for the detection of copper

CUPROTESMO will detect copper and copper compounds in surfaces, in ashes and in solutions.

CUPROTESMO reacts specifically with copper by colour changing from pale yellow to pink or crimson.

CUPROTESMO detects metallic copper as well as Cu(I) and Cu(II) salts and will detect 0.05 µg copper on surfaces.

Method of application:

a) Detection of copper in surfaces

The test paper is wetted with distilled water and then pressed firmly for 30 seconds against the surface to be tested. Significant quantities of copper give an immediate positive reaction, trace quantities are detected after several minutes.

b) Detection of copper in ash

The test paper is wetted with distilled water and then pressed for 30 seconds into the ash which has been previously acidified with dilute hydrochloric acid. Alternatively, the acidified ash may be lightly sprinkled on the wetted test paper. When copper is present the test paper will turn pink or crimson within a few minutes. One views the reserve side of the test paper to estimate the intensity of the colour change more reliably. When the test paper is employed to detect trace quantities of copper by sprinkling the ash directly on the paper, one inspects the side of the test paper to which the ash was applied, after it has been rinsed off with distilled water.

c) Detection of copper in solutions

Apply a drop of test solution to the dry test paper. A pink colour appears in the presence of copper at a level of 10 mg/l or more. When working with weak concentrations, a control test with distilled water is recommended.

Lesser concentrations, i.e. 3-5 mg/l are detected by evaporating a drop of the test solution on a clean glass slide. A red spot indicates the presence of copper, when a wetted test paper is pressed firmly against the glass slide. Very small concentrations of copper are detected by evaporating some drops of the test solution on the same spot on the glass slide.

Storage:

Avoid exposing the test paper to sunlight and moisture. Store the package below +30 °C in a dry place.