

Application report light

Concentration of Copper in Sulphuric Acid [H₂SO₄]

SIGRIST product

- ColorPlus in-line

Industry

- Metal Industry

Typical application

- The concentration of copper is measured to control the concentration of copper.
- The copper concentration in the electrolyte is measured for quality control purposes.
- Wavelength: 680 nm (absorption)
- Typical range 0..140 g/l of copper
- Flow cell in-line PVDF, 2–5 mm, DN25
- Calibrated in g/l of copper

Use

- Electroplating, manufacturing of copper foil

Additional information

The production of copper foil is effected by a galvanic process. The copper is present as copper sulphate in sulfuric acid. By applying a direct current, the copper ions are attracted to the cathode. During the process, the copper concentration in the sulfuric acid decreases. Measurement of the copper concentrations allows it to be kept at a constant level.



ColorPlus in-line with PVDF flow cell



photometer.com/Off7