# Effluent treatment in the copper and copper alloy industries

## - - US3816306A



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#### Processing of Complex Materials in the Copper Industry: Challenges and Opportunities Ahead

Trends Affecting Copper Mines Table shows a list of identified trends in the copper industry in recent years. Thermodynamic and kinetic aspects as well as strategies to optimize capture and stabilization were summarised by Piret et al.

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Specifically, it is used for gas lines; heater lines; oil burner tubes; plumbing pipe and tube; refrigerators; condensers; evaporators; heat-exchanger tubes; dairy tubes, and hydraulic lines.

#### Processing of Complex Materials in the Copper Industry: Challenges and Opportunities Ahead

KG manufactures a wide range of copper and copper alloy products for customers from a large variety of industries at their Osnabrück site. The etchant solutions are highly alkaline and conventionally contain ammonia, ammoniated compounds, proprietary complexing agents of various kinds, and oxidizing agents, such as sodium chlorite. If the effluent is already acidic, the peroxide addition may be paced with the calcium chloride addition.

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Copper Content in Ores and Concentrates A global copper mine-by-mine review undertaken by ICSG found that the global average copper ore grade was as low as 0. Figure shows a comparison for copper anode impurities between 2007 and 2019: arsenic, tellurium, bismuth, selenium, nickel, and antimony concentrations in copper anodes have all increased. When the etchant solution is rinsed from the copper plated substrate the rinse waters thus contain considerable copper, often in amounts of 20-50 ppm.

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