

## The Influence of Sulfate and Magnesium Ions on the Growth Kinetics of CaCO<sub>3</sub>

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**Abstract :** The presence of different mineral salts in natural waters may precipitate and form hard deposits in water distribution systems. In this respect, we have developed numerous works on scaling by Algerian water with a very high hardness of 102 °F. The aim of our work is to study the influence of water dynamics and its composition on mineral salts on the precipitation of calcium carbonate (CaCO<sub>3</sub>). To achieve this objective, we have adopted two precipitation techniques based on controlled degassing of dissolved CO<sub>2</sub>. This study will identify the causes and provide answers to this complex phenomenon.

**Keywords :** calcium carbonate, controlled degassing, precipitation, scaling

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