sera

DOSING OF CALCIUM CHLORIDE AND CALCIUM SULPHATE

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OPTIMUM BREWING WATER QUALITY THE KEY TO A PERFECT BEER

With controlled calcium dosing for the perfect brewing result

The targeted adjustment of the brewing water quality is crucial for the brewing process and the quality of the finished beer. Precise dosing of calcium chloride ($CaCl_2$) and calcium sulphate ($CaSO_4$) - also known as brewing gypsum - optimises the pH value in the mash. This results in improved enzyme activity and a fresher taste of the finished beer.

Challenges in brewing water treatment

- If the residual alkalinity is too high, it affects the mash pH and consequently impairs enzyme activity.
- If the calcium content is too low, it can negatively affect the settling behaviour of the yeast and disrupt the fermentation.
- The result is an unpleasant bitterness and a lack of freshness in the finished beer.
- Insufficient brewing water treatment can result in a darker colour.

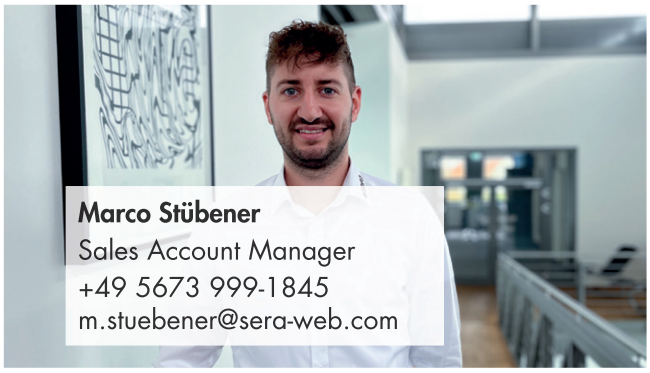
The sera solution

- **Efficient dosing:** Our systems enable the precise and safe dosing of calcium chloride ($CaCl_2$) and calcium sulphate ($CaSO_4$) for brewing water treatment. This achieves a soft, well-rounded aroma in the finished beer.
- **Robust construction:** The dosing systems are made of heat-resistant polypropylene (PP), as $CaCl_2$ is aggressive towards stainless steel.
- **Optimal suspension:** An integrated agitator keeps the brewing gypsum suspension in suspension and ensures that the particles are evenly distributed.
- **Practical handling:** a conical bottom allows complete emptying, while a sack discharge facilitates the convenient addition of the substances.

With sera's precise dosing systems, you can optimise your brewing water treatment and benefit from a reliable, user-friendly solution.

Your contact persons

Frederik Amrhein
Teamlead – Food & Beverage
+49 5673 999-1870
f.amrhein@sera-web.com



Marco Stübener
Sales Account Manager
+49 5673 999-1845
m.stuebener@sera-web.com

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