



Product Information

Brewers' Calcium Chloride

Description

BREWERS' CALCIUM CHLORIDE is hydrated calcium chloride used to correct mineral deficiencies in water which is to be used for brewing. It is used in de-mineralized or soft to medium hard water to increase permanent hardness. Used as directed, **BREWERS' CALCIUM CHLORIDE** is effective in eliminating the variations in composition often encountered in water from surface sources. It will help establish proper pH of the mash and the wort and provide sufficient calcium ions essential for enzyme function, kettle protein coagulation and yeast metabolism.

Typical Properties

| | |
|------------------|---|
| Form | Solid Flakes |
| Color | White to off white |
| Solubility | Hygroscopic and deliquescent Very soluble in water with evolution of heat |
| Calcium, as Ca | Min. 23% |
| pH of 10% slurry | 5.4 |

Specification

| | |
|----------------------------|-------------|
| Calcium Chloride | 99-107% |
| Alkali Chlorides (as NaCl) | 4.0 Maximum |
| Fluoride | 40ppm |
| Lead | <1 ppm |
| Heavy Metals (as Pb) | <10ppm |
| Arsenic | <1ppm |

Suggested Procedures For Use

If possible, make up a 1% solution of **BREWERS' CALCIUM CHLORIDE** in cold water in a separate tank with vigorous mixing. Calcium salts are more soluble in cold water, and the mixing will help dissolve the salt more completely. Warning a considerable heat of solution is developed when dissolved in water

Dilute the **BREWERS' CALCIUM CHLORIDE** solution into water being heated for mashing or for sparging. The final concentration of salts should be in the range of 100 to 1000 ppm (mg/L). This will require 2.5 to 25 lb/100 Bbl (10 to 100 g/Hl). If a tank is not available for making a solution ahead of time, the **BREWERS' CALCIUM CHLORIDE** can be added directly to mash water or sparge water with as much mixing as possible to assure dispersion.

Approval For Use In Brewing

The ingredient in **BREWERS' CALCIUM CHLORIDE** is approved for use in brewing and calcium chloride is listed in the *Adjunct Reference Manual* of the United States Beer Institute.

IMPORTANT FOR YOUR PROTECTION

The information and recommendations contained herein are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty of representation in respect of safety in use, suitability, efficacy or otherwise including freedom from patent infringement. Users should make their own tests for their particular purpose. We cannot accept any liability for any loss, damage or infringement arising from the use of the information and recommendation contained herein



Packaging & Storage

Store in closed containers under dry conditions. Packed in 50 lb. Plastic bags. The product should be stored in a cool, dry place. This product is hygroscopic and opened bags should be placed in a sealed drum

Handling Precautions

Contact with skin may cause irritation. Can irritate or burn eyes. Ingestion may irritate mouth, esophagus or stomach. Inhalation of product dust may irritate nose, throat and lungs.

Contact with Water generates substantial heat. When dissolving add cautiously to water with stirring. A separate Material Safety Data Sheet (MSDS) is available on request.

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Approved on : 16/09/2002

Date Printed:

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