

# Wort clarification with Kettlekleer Tablets

## PRODUCT INFO

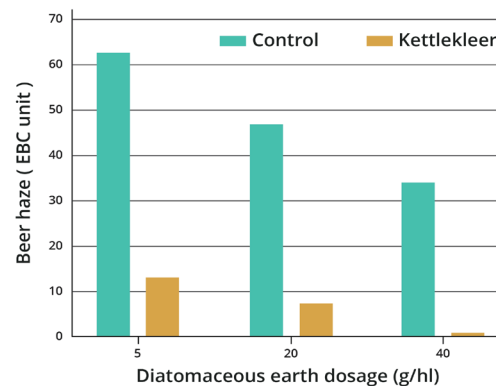
Kettlekleer tablets are the easy-to-use, consistent kettle fining from Murphy & Son designed specifically for wort clarification in the brewery.

Kettlekleer dissolves into boiling wort and complexes with the undesirable protein fraction known as the cold break once the wort is cooled and in the fermenter. As it quickly settles out, it is kept out of the yeast and beer.

## BENEFITS

- ➔ Improved fermentation
- ➔ Brighter wort and beer
- ➔ Cleaner, healthier yeast
- ➔ Faster filtration and centrifuge

### Improvement in filtration with Kettlekleer



Trials show that the application of carrageenan requires less filter material to produce a brighter beer.

## FASTER CLARIFICATION

Kettlekleer sediments out most of the protein in the fermenter. As the size of remaining particles is increased and their number is reduced, it is far easier to filter and centrifuge, saving time and money.

## HEALTHY YEAST

Keep your pitching yeast pure and healthy by settling out the cold break in the bottom of the cone before harvesting.



Control vs. 25ppm after 3 hours shows application of Murphy's Kettle Finings greatly increases sedimentation of cold break in wort.

## HOW DOES IT WORK?

Kettlekleer contains large, negatively charged molecules called kappa-carrageenan which bind to the positively charged protein in the cold break as it forms. As large molecules fall faster in liquids, the rate of sedimentation is greatly increased. It is only added to boiling wort to help it dissolve. The action of Kettlekleer happens in the cold wort during the early stages of fermentation.

If this is your first time using Kettlekleer, contact us about performing a brewery trial.

## PACKAGE SIZE

2 kg: 400–800 bbl

25 kg: 5,000–10,000 bbl

Each tablet weighs 2.5 grams.



**Available in the  
U.S. and Canada**

## APPLICATION

### How much to add

10–12 Plato wort: 1/2 tablets per barrel (U.S.)

12–16 Plato wort: 1 tablet per barrel (U.S.)

### When to use

Added to boiling wort in kettle, 10–15 minutes from end of boil

### Activity range

pH: 5.0–5.6

temperature: <70°F

## STORAGE

### Temperature

34–72°F

Do not allow to freeze.

### Location

Cool, sealed, and away from sunlight

### Shelf life

At the recommended storage temperature, 24 months from the date of manufacture

## TECHNICAL SUPPORT

### Health and Safety Information

Safety Datasheet (SDS) available online at [murphyandson.co.uk/sds](http://murphyandson.co.uk/sds)

### Technical Datasheet

Printer-friendly Technical Datasheet available at [murphyandson.co.uk/datasheets-sds](http://murphyandson.co.uk/datasheets-sds)

### Compliance

For information on Kosher, Halal, GMO, etc. email [compliance@murphyandson.co.uk](mailto:compliance@murphyandson.co.uk)

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