



## OPTIMISATION

# KETTLE FININGS

## STEP BY STEP INSTRUCTIONS GUIDE

### 1. Measuring

Make up a solution of kettle finings by dissolving 1 g of carageenan product in a litre of boiling water (this gives a 0.1% solution).

Label the 100 mL measuring cylinders in 5ppm (mg/L) increments, including a 0 ppm control up to 40 ppm (9 samples altogether).

### 2. Add Finings

Add a range of finings rates to the 100 mL measuring cylinders using the 10 mL pipette, with 0.5 mL of kettle finings solution corresponding to 5 ppm.

### 3. Take Samples & Record Clarity

Take a wort sample (approx 2 litres) 15 minutes before the end of the boil and just before the addition of kettle finings.

Fill the measuring cylinders with the hot wort to the 100 mL mark.

Record the wort clarity and appearance of the hot break.

### 4. Cool & Allow To Stand

Cool by immersion in cold water in the bucket for 20 minutes.

Allow to settle for 2–4 hours and observe the appearance of the cold break, recording the wort clarity and cold break volume.

Allow to stand for a full 24 hours to get the final result.

Decide on the optimum rate of kettle finings addition for the beer in question, there should be bright clear wort and compact sediment.

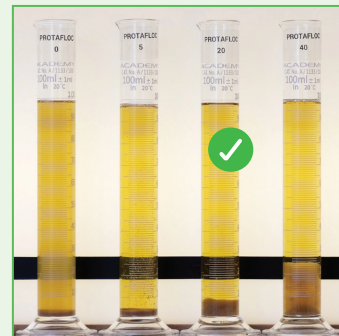
#### EQUIPMENT

##### What You Need

- 9 x 100 mL Cylinders
- 1 x Jug
- 1 x Beaker
- Pipette and pipette bulb
- Bucket



#### SEDIMENT EXAMPLES



##### Control

Mini-sediment with hazy wort.

##### 5 ppm

Sediment but slightly hazy beer.

##### 20 ppm

Clear wort, packed sediment.

##### 30 ppm

Very loose sediment, clear wort.

#### DID YOU KNOW

You can buy a Kettle Finings Optimisation kit from us at [murphyandson.co.uk](https://murphyandson.co.uk)

### WANT TO KNOW MORE? GET IN TOUCH

If you would like to know more about what we do, head to [murphyandson.co.uk](https://murphyandson.co.uk) or to speak to our Technical Support Team, email [techsupport@murphyandson.co.uk](mailto:techsupport@murphyandson.co.uk)



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