

Brown Ale #10

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **22**
- SRM **12.5**
- Style **Northern English Brown Ale**

Batch size

- Expected quantity of finished beer **22.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **29.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **67 C**, Time **60 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|--------------|-------|-----|
| Grain | Simpsons - Maris Otter | 4.5 kg (90%) | 81 % | 6 |
| Grain | Brown Malt (British Chocolate) | 0.4 kg (8%) | 70 % | 128 |
| Grain | Briess - Black Malt | 0.1 kg (2%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Chinook | 30 g | 60 min | 7.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------------|------|-------|--------|------------------|
| FM10 O czym szumią wierzby | Ale | Slant | 200 ml | Fermentum Mobile |