

Brown Ale #12

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **26**
- SRM **13.5**
- 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

Steps

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

Mash step by step

- Heat up **15.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **19.6 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 4.5 kg (88.2%) | 85 % | 7 |
| Grain | Weyermann Caramunich 3 | 0.15 kg (2.9%) | 76 % | 150 |
| Grain | Brown Malt (British Chocolate) | 0.35 kg (6.9%) | 70 % | 128 |
| Grain | Jęczmień palony | 0.1 kg (2%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil | Sorachi Ace | 20 g | 60 min | 12.8 % |
| Aroma (end of boil) | East Kent Goldings | 30 g | 0 min | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------------------|------|-------|--------|-------------|
| Wyeast - 1318 London Ale III | Ale | Slant | 200 ml | Wyeast Labs |