

## Pale Ale #13

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **22**
- SRM **4.6**
- Style **Blonde 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 | Weyermann - Pale Ale Malt | 5 kg (100%) | 85 %  | 7   |

### Hops

| Use for             | Name               | Amount | Time   | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil                | Chinook            | 30 g   | 60 min | 7.5 %      |
| Aroma (end of boil) | East Kent Goldings | 50 g   | 0 min  | 5.1 %      |

### Yeasts

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