# Pale Ale #2

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **31**
- SRM **3.7**
- Style Extra Special/Strong Bitter (English Pale Ale)

## **Batch size**

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

# **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

### **Steps**

- Temp 66 C, Time 60 min
  Temp 72 C, Time 15 min

# Mash step by step

- Heat up 13.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 15 min at 72C
- Sparge using 17.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg <i>(100%)</i>	80 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	7.4 %
Boil	Fuggles	30 g	15 min	4.3 %
Aroma (end of boil)	Fuggles	30 g	0 min	4.5 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	200 g	Safale