# To normalne

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **19**
- SRM 3.6
- Style American 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 45 min
- Evaporation rate 3 %/h
- Boil size 24.6 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 69 C, Time 80 min

## Mash step by step

- Heat up 15 liter(s) of strike water to 77.2C
- Add grains
- Keep mash 80 min at 69C
- Sparge using 14.6 liter(s) of 76C water or to achieve 24.6 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Golden Promise	5 kg (100%)	80 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade PL	50 g	45 min	4 %
Dry Hop	Cascade PL	50 g	10 day(s)	5.2 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	23 g	Fermentis