## Pale Ale

- Gravity 15.2 BLG
- ABV 6.3 %
- IBU **15**
- SRM **5.6**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 49 liter(s)
- Trub loss 5 %
- Size with trub loss 53.9 liter(s)
- Boil time 80 min
- Evaporation rate 5 %/h
- Boil size 60.2 liter(s)

### **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 45 liter(s)
- Total mash volume 60 liter(s)

#### **Steps**

• Temp 67 C, Time 70 min

## Mash step by step

- Heat up 45 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 70 min at 67C
- Sparge using 30.2 liter(s) of 76C water or to achieve 60.2 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale ale crisp	14 kg (93.3%)	%	5.5
Grain	Briess - Munich Malt 10L	1 kg <i>(6.7%)</i>	77 %	25

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Bobek	100 g	60 min	3.5 %
Aroma (end of boil)	Cascade	100 g	1 min	6.7 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Wyeast 1056	Ale	Slant	200 ml	