# Ech

- Gravity 12.4 BLG
- ABV ---
- IBU **32**
- SRM 4.5
- Style American Pale Ale

## **Batch size**

- Expected quantity of finished beer 14 liter(s)
- Trub loss 10 %
- Size with trub loss 15.4 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 19.3 liter(s)

# **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 10.2 liter(s)
- Total mash volume 13.1 liter(s)

#### **Steps**

• Temp 68 C, Time 60 min

## Mash step by step

- Heat up 10.2 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 12 liter(s) of 76C water or to achieve 19.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	ЕВС
Grain	Briess - Pale Ale Malt	2.9 kg <i>(100%)</i>	80 %	7

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	5 g	60 min	12.8 %
Boil	Chinook	20 g	10 min	12.8 %
Boil	Amarillo	30 g	1 min	8.9 %
Boil	Citra	50 g	1 min	12 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
US West Coast	Ale	Dry	10 g	Gozdawa