#### **APA**

- Gravity 13.2 BLG
- ABV ----
- IBU **29**
- SRM **9.9**
- Style American Pale Ale

#### **Batch size**

- Expected quantity of finished beer 24 liter(s)
- Trub loss 10 %
- Size with trub loss 26.4 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 30.4 liter(s)

### **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.9 liter(s)
- Total mash volume 25.6 liter(s)

# **Steps**

- Temp **63 C**, Time **50 min** Temp **72 C**, Time **20 min**
- Temp 78 C, Time 5 min

### Mash step by step

- Heat up 19.9 liter(s) of strike water to 69.2C
- Add grains
- Keep mash 50 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 16.2 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	5 kg <i>(87.7%)</i>	80 %	7
Grain	Weyermann pszeniczny jasny	0.4 kg <i>(7%)</i>	80 %	6
Grain	Strzegom Karmel 150	0.3 kg <i>(5.3%)</i>	75 %	150

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mosaic	20 g	60 min	10 %
Boil	Centennial	20 g	20 min	9.4 %
Whirlpool	Centennial	20 g	0 min	9.4 %
Dry Hop	Mosaic	10 g	7 day(s)	10 %
Dry Hop	Citra	30 g	5 day(s)	12 %
Dry Hop	Centennial	20 g	3 day(s)	10.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Liquid	250 ml	Safale

## **Extras**

Туре	Name	Amount	Use for	Time
Fining	irish moss	5 g	Boil	15 min