## **Polskie APA**

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU **50**
- SRM **4**
- Style American Pale Ale

## **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

# **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

### **Steps**

- Temp 68 C, Time 60 min
  Temp 78 C, Time 10 min

# Mash step by step

- Heat up 17.5 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 10 min at 78C
- Sparge using 13.9 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

### **Fermentables**

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

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zula	30 g	60 min	8.3 %
Boil	Zula	30 g	30 min	8.3 %
Aroma (end of boil)	Amarillo	20 g	1 min	9.5 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis