# apa owsiana

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **41**
- SRM 4.5
- 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 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

## **Steps**

- Temp **65 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp **77 C**, Time **1 min**

## Mash step by step

- Heat up 18 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 40 min at 65C
- Keep mash 20 min at 72C
- Keep mash 1 min at 77C
- Sparge using 14.5 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg <i>(83.3%)</i>	80 %	4
Grain	Słód Honig Viking	0.5 kg <i>(8.3%)</i>	80 %	12
Grain	Żytni	0.5 kg (8.3%)	85 %	8

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	50 min	13 %
Aroma (end of boil)	Cascade PL	50 g	5 min	5.2 %
Dry Hop	Galena	20 g	4 day(s)	12 %
Dry Hop	Cascade PL	10 g	4 day(s)	5.2 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	0.5 g	Fermentis

#### **Extras**

Type Name	Amount	Use for	Time
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Water Agent	platici avvaiana	300 a	Mach	70 min
Water Agent	płatki owsiane	300 g	Mash	70 min