# polski pils

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 30
- SRM **5**
- Style American Pale Ale

#### **Batch size**

- Expected quantity of finished beer 30 liter(s)
- Trub loss 5 %
- Size with trub loss 31.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 38 liter(s)

## **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 23.4 liter(s)
- Total mash volume 31.2 liter(s)

## **Steps**

- Temp 67 C, Time 60 min
  Temp 72 C, Time 10 min
- Temp **76 C**, Time **1 min**

## Mash step by step

- Heat up 23.4 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 10 min at 72C
- Keep mash 1 min at 76C
- Sparge using 22.4 liter(s) of 76C water or to achieve 38 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	5.5 kg <i>(70.5%)</i>	80.5 %	2
Grain	Munich Malt	2.3 kg <i>(29.5%)</i>	80 %	18

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	35 g	50 min	10.6 %
Boil	Cascade PL	25 g	10 min	5.2 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Gozdawa - W35 German Lager	Lager	Dry	10 g	Gozdawa