# **Polish Hops Pils**

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **38**
- SRM 3.5

#### **Batch size**

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

### **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

#### Steps

- Temp 40 C, Time 0 min
  Temp 62 C, Time 10 min
  Temp 72 C, Time 45 min

- Temp 76 C, Time 10 min

## Mash step by step

- Heat up 15 liter(s) of strike water to 43.3C
- Add grains
- Keep mash 0 min at 40C
- Keep mash 10 min at 62C
- Keep mash 45 min at 72C
- Keep mash 10 min at 76C
- Sparge using 17.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (100%)	81 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	13 %
Boil	Lublin (Lubelski)	40 g	15 min	4.3 %
Boil	Hallertau Blanc	20 g	5 min	10.8 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

## **Notes**

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