# First pilsner

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **31**
- SRM 3.6
- Style German Pilsner (Pils)

#### **Batch size**

- Expected quantity of finished beer 10 liter(s)
- Trub loss 10 %
- Size with trub loss 11 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 13.2 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 7.5 liter(s)
- Total mash volume 10 liter(s)

### **Steps**

- Temp 52 C, Time 10 min
  Temp 62 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp 78 C, Time 10 min

### Mash step by step

- Heat up 7.5 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 45 min at 62C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 8.2 liter(s) of 76C water or to achieve 13.2 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.5 kg <i>(100%)</i>	80 %	4

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zeus	4 g	60 min	15.1 %
Boil	Columbus/Tomahawk/Zeus	4 g	30 min	15.1 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	12 g	5 min	15.1 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
fermolager berlin	Lager	Dry	10 g	