# **Pils**

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU 29
- SRM **3.9**
- Style German Pilsner (Pils)

## **Batch size**

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- · Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 28.5 liter(s)

### **Mash information**

- Mash efficiency 68 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 18.9 liter(s)
- Total mash volume 24.3 liter(s)

# **Steps**

- Temp **64 C**, Time **20 min** Temp **72 C**, Time **40 min**
- Temp 78 C, Time 10 min

# Mash step by step

- Heat up 18.9 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 20 min at 64C
- Keep mash 40 min at 72C
- Keep mash 10 min at 78C
- Sparge using 15 liter(s) of 76C water or to achieve 28.5 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4.5 kg <i>(83.3%)</i>	82 %	4
Grain	Monachijski	0.5 kg <i>(9.3%)</i>	80 %	16
Grain	Briess - 2 Row Carapils Malt	0.4 kg (7.4%)	75 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	7.5 %
Boil	Hallertau Tradition	30 g	60 min	5 %
Boil	Hallertau Tradition	30 g	5 min	5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Liquid	500 ml	Fermentum Mobile

#### **Extras**

Туре	Name	Amount	Use for	Time
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