# pils

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU **38**
- SRM 3.8
- Style Bohemian Pilsener

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

#### **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

## **Steps**

- Temp **64 C**, Time **60 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 5 min

## Mash step by step

- Heat up 15.9 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 14.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (94.3%)	81 %	4
Grain	Carapils	0.3 kg <i>(5.7%)</i>	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Saaz (Czech Republic)	50 g	60 min	4.5 %
Boil	Saaz (Czech Republic)	20 g	20 min	4.5 %
Boil	Saaz (Czech Republic)	30 g	10 min	4.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
fm 30	Lager	Liquid	1000 ml	fermentum

# **Extras**

Туре	Name	Amount	Use for	Time
Water Agent	kwas	5 g	Mash	80 min

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Fining	wirflock	5 g	Mash	5 min