# pils caraaroma

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **39**
- SRM **9.3**
- 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 8 %/h
- Boil size 29.3 liter(s)

# **Mash information**

- Mash efficiency 96 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14.9 liter(s)
- Total mash volume 19.1 liter(s)

# **Steps**

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

# Mash step by step

- Heat up 14.9 liter(s) of strike water to 56.6C
- Add grains
- Keep mash 15 min at 52C
- Keep mash 15 min at 62C Keep mash 45 min at 72C
- Sparge using 18.7 liter(s) of 76C water or to achieve 29.3 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	2 kg (47.1%)	81 %	4
Grain	Viking Pale Ale malt	2 kg <i>(47.1%)</i>	80 %	5
Grain	Caraaroma	0.25 kg <i>(5.9%)</i>	78 %	400

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	10.5 %
Boil	Perle	25 g	30 min	7.3 %
Boil	Hersbrucker	30 g	15 min	2.8 %
Boil	Hersbrucker	20 g	5 min	2.8 %