pale ale 12° blg

- Gravity 12.4 BLG
- ABV 5 %
- IBU **24**
- SRM 4.2
- Style Extra Special/Strong Bitter (English Pale Ale)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.1 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 76 C, Time 1 min

Mash step by step

- Heat up 17.1 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 1 min at 76C
- Sparge using 13.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	4.6 kg (93.9%)	80 %	4
Grain	carahell	0.3 kg <i>(6.1%)</i>	%	25

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kent Goldings	30 g	60 min	5.5 %
Aroma (end of boil)	Fuggles	20 g	15 min	4.5 %
Aroma (end of boil)	Fuggles	10 g	5 min	4.5 %

Yeasts

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