Bitter

- Gravity 9 BLG
- ABV 3.5 %
- IBU 33
- SRM **6.2**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 33.1 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 18 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 66 C, Time 75 min
 Temp 78 C, Time 15 min

Mash step by step

- Heat up 18 liter(s) of strike water to 71.8C
- Add grains
- Keep mash 75 min at 66C
- Keep mash 15 min at 78C
- Sparge using 19.6 liter(s) of 76C water or to achieve 33.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Warminster - Pale malt	3.2 kg (71.1%)	81 %	4.5
Grain	Warminster - English Caramalt	0.8 kg <i>(17.8%)</i>	75 %	64.6
Grain	Corn, Flaked	0.25 kg <i>(5.6%)</i>	80 %	0.93
Grain	Barley, Flaked	0.25 kg <i>(5.6%)</i>	70 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	35 g	75 min	8.2 %
Aroma (end of boil)	Progress	30 g	5 min	5.8 %

Yeasts

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