SCOTTISH ALE

- Gravity 11.4 BLG
- ABV ----
- IBU **16**
- SRM **17.6**

Batch size

- Expected quantity of finished beer 160 liter(s)
- Trub loss 3 %
- Size with trub loss 164.8 liter(s)
- Boil time 120 min
- Evaporation rate 5 %/h
- Boil size **198.9 liter(s)**

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4.5 liter(s) / kg
- Mash size **136.8 liter(s)**
- Total mash volume 167.2 liter(s)

Steps

• Temp 68 C, Time 75 min

Mash step by step

- Heat up 136.8 liter(s) of strike water to 73.3C
- Add grains
- Keep mash 75 min at 68C
- Sparge using 92.5 liter(s) of 76C water or to achieve 198.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Golden Promise	24.8 kg (81.6%)	81 %	6
Grain	Crystal Malt	4.8 kg <i>(15.8%)</i>	75 %	160
Grain	Chocolate Malt	0.8 kg <i>(2.6%)</i>	60 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	200 g	60 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Culture	100 g	Safale