Bitter FM11

- Gravity **11.7 BLG**
- ABV 4.7 %
- IBU **30**
- SRM 11.6
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 7.9 liter(s)
- Total mash volume 10.6 liter(s)

Steps

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

Mash step by step

- Heat up 7.9 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 1 min at 76C
- Sparge using 9.9 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	2.1 kg (79.5%)	81 %	6
Grain	Oats, Flaked	0.22 kg <i>(8.3%)</i>	65 %	2
Grain	Simpsons - Crystal Medium	0.22 kg <i>(8.3%)</i>	74 %	300
Grain	Cookie VM	0.1 kg (3.8%)	79 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	10 %
Boil	Saaz (Czech Republic)	15 g	5 min	3.5 %