# ordinary bitter

- · Gravity 9.5 BLG
- ABV 3.7 %
- IBU 27
- SRM **7**
- Style Standard/Ordinary Bitter

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

## **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

### **Steps**

- Temp 68 C, Time 80 min
  Temp 78 C, Time 10 min

### Mash step by step

- Heat up 12 liter(s) of strike water to 76C
- Add grains
- Keep mash 80 min at 68C
- Keep mash 10 min at 78C
- Sparge using 18.4 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

# **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg <i>(75%)</i>	80 %	5
Grain	Biscuit Malt	0.5 kg <i>(12.5%)</i>	79 %	45
Grain	Karmelowy Czerwony	0.5 kg <i>(12.5%)</i>	75 %	59

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	10 g	60 min	5.9 %
Boil	East Kent Goldings	10 g	60 min	5.4 %
Aroma (end of boil)	Fuggles	20 g	15 min	5.9 %
Aroma (end of boil)	East Kent Goldings	20 g	15 min	5.4 %
Dry Hop	Fuggles	20 g	7 day(s)	5.9 %
Dry Hop	East Kent Goldings	20 g	7 day(s)	5.4 %

#### **Yeasts**

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

#### **Extras**

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	5 g	Boil	15 min