# **Modern bitter**

- Gravity 9 BLG
- ABV 3.5 %
- IBU 28
- SRM **5**
- Style Standard/Ordinary Bitter

### **Batch size**

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 22.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.5 liter(s)

# **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 11.6 liter(s)
- Total mash volume 14.9 liter(s)

### **Steps**

- Temp 66 C, Time 60 min
  Temp 76 C, Time 5 min

# Mash step by step

- Heat up 11.6 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 5 min at 76C Sparge using 18.2 liter(s) of 76C water or to achieve 26.5 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	3 kg <i>(90.9%)</i>	81 %	5
Grain	CRISP - Crystal Extra Light	0.2 kg <i>(6.1%)</i>	74 %	120
Grain	Weyermann - Carapils	0.1 kg <i>(3%)</i>	78 %	4

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Admiral	20 g	30 min	15.1 %
Boil	Mosaic	50 g	0 min	12.3 %
Boil	Fuggles	50 g	0 min	4.2 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	