### Stout z dodatkami

- Gravity 16.4 BLG
- ABV 6.9 %
- IBU **18**
- SRM 57
- Style Dry Stout

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 28 liter(s)

### **Steps**

- Temp 48 C, Time 15 min
  Temp 62 C, Time 60 min
  Temp 70 C, Time 30 min
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up 21 liter(s) of strike water to 52.7C
- Add grains
- Keep mash 15 min at 48C
- Keep mash 60 min at 62C
- Keep mash 30 min at 70C
- Keep mash 10 min at 78C
- Sparge using 11.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(50%)</i>	80 %	5
Grain	Słód owsiany	0.5 kg <i>(7.1%)</i>	61 %	5
Grain	Fawcett - Brown	0.5 kg <i>(7.1%)</i>	72 %	180
Grain	Castle Cafe	0.5 kg <i>(7.1%)</i>	75.5 %	250
Grain	Carafa II	0.5 kg <i>(7.1%)</i>	70 %	1100
Grain	Fawcett - Chocolate	0.5 kg <i>(7.1%)</i>	71 %	1100
Grain	Special B Malt	0.5 kg <i>(7.1%)</i>	65.2 %	260
Grain	Carahell	0.5 kg <i>(7.1%)</i>	77 %	26

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amora Preta	10 g	50 min	11.2 %
Boil	Amora Preta	10 g	30 min	11.2 %

### **Yeasts**

Name Type	Form	Amount	Laboratory
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Safbrew S-33	Ale	Dry	11.5 g	Fermentis
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# **Notes**

 Różne dodatki najpewniej już do butelek dodam. Mar 2, 2023, 10:27 PM