# Rye Stout

- Gravity 14 BLG
- ABV ----
- IBU **37**
- SRM **37.6**
- Style Dry Stout

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 0 %
- 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 17.4 liter(s)
- Total mash volume 23.2 liter(s)

### **Steps**

- Temp **66 C**, Time **60 min** Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up 17.4 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 10 min at 72C
- Keep mash 1 min at 78C
- Sparge using 13.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg <i>(51.7%)</i>	80 %	4
Grain	Fawcett - Pale Chocolate	0.5 kg (8.6%)	71 %	600
Grain	Caraaroma	0.25 kg <i>(4.3%)</i>	78 %	400
Grain	Weyermann - Chocolate Wheat	0.35 kg <i>(6%)</i>	74 %	900
Grain	Weyermann - Carafa I	0.1 kg <i>(1.7%)</i>	70 %	690
Grain	Rye, Flaked	1.6 kg (27.6%)	78.3 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	60 min	11 %
Boil	lunga	10 g	20 min	11 %
Boil	lunga	40 g	1 min	11 %

### **Yeasts**

Name Type	Form	Amount	Laboratory
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FM13 Irlandzkie	Ale	Liquid	2000 ml	Fermentum Mobile
Ciemności				