# Rye Milk Stout

- Gravity 18.7 BLG
- ABV ----
- IBU **13**
- SRM **25.5**
- Style **Sweet 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 24.2 liter(s)

### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18.6 liter(s)
- Total mash volume 24.8 liter(s)

### **Steps**

- Temp 48 C, Time 15 min
  Temp 62 C, Time 15 min
  Temp 68 C, Time 30 min
- Temp **72 C**, Time **10 min**

## Mash step by step

- Heat up 18.6 liter(s) of strike water to 52.7C
- Add grains
- Keep mash 15 min at 48C
- Keep mash 15 min at 62C
- Keep mash 30 min at 68C
- Keep mash 10 min at 72C
- Sparge using 11.8 liter(s) of 76C water or to achieve 24.2 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg <i>(59.7%)</i>	79 %	6
Grain	Żytni	1 kg <i>(14.9%)</i>	85 %	8
Grain	Strzegom Monachijski typ II	0.3 kg <i>(4.5%)</i>	79 %	22
Grain	Weyermann - Carafa II	0.2 kg <i>(3%)</i>	70 %	837
Grain	Briess - Extra Special Malt	0.2 kg <i>(3%)</i>	73 %	256
Grain	Płatki owsiane	0.5 kg <i>(7.5%)</i>	85 %	3
Sugar	Milk Sugar (Lactose)	0.5 kg <i>(7.5%)</i>	76.1 %	0

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	40 g	50 min	3.5 %

#### **Yeasts**

Name	Type	Form	Amount	Laboratory
	J1: -	=		

Safale S-04	Ale	Dry	11.5 g	Safale