# **Rye Imperial Stout**

- Gravity 21.1 BLG
- ABV 9.4 %
- IBU **41**
- SRM **26.9**
- Style Russian Imperial 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 70 %
- Liquor-to-grist ratio 2.3 liter(s) / kg
- Mash size 20.5 liter(s)
- Total mash volume 29.4 liter(s)

### **Steps**

- Temp 63 C, Time 40 min
  Temp 66 C, Time 30 min
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up 20.5 liter(s) of strike water to 72.3C
- Add grains
- Keep mash 40 min at 63C
- Keep mash 30 min at 66C
- 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	Żytni	8.3 kg <i>(93.3%)</i>	85 %	8
Grain	żyto prażone	0.6 kg <i>(6.7%)</i>	60 %	700

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	50 g	60 min	10.4 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Slant	400 ml	Fermentis