# Hoppy Roggen 14 blg CTZ/Chinook

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **28**
- SRM **6.5**
- Style Roggenbier

#### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

### **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 21.7 liter(s)
- Total mash volume 27.9 liter(s)

### **Steps**

- Temp 44 C, Time 20 min
  Temp 64 C, Time 60 min
  Temp 72 C, Time 20 min
- Temp **77 C**, Time **10 min**

## Mash step by step

- Heat up 21.7 liter(s) of strike water to 47.4C
- Add grains
- Keep mash 20 min at 44C
- · Keep mash 60 min at 64C
- Keep mash 20 min at 72C
- Keep mash 10 min at 77C
- Sparge using 10.9 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Briess - Rye Malt	3 kg <i>(48.4%)</i>	80 %	7
Grain	Viking Munich Malt	1 kg (16.1%)	78 %	18
Grain	Viking Vienna Malt	1 kg (16.1%)	79 %	7
Grain	Viking Pilsner malt	1 kg (16.1%)	82 %	4
Grain	Strzegom Karmel 30	0.2 kg <i>(3.2%)</i>	75 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus US	10 g	60 min	15.5 %
Boil	Chinook	20 g	15 min	13 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safbrew WB-06	Wheat	Dry	12 g	FERMENTIS

#### **Extras**

Туре	Name	Amount	Use for	Time
Other	łuska ryżowa	150 g	Mash	110 min