# **ŚWIĄTECZNY PIERNIK**

- Gravity 14.7 BLG
- ABV 6.1 %
- IBU **21**
- SRM **15.9**
- Style Christmas/Winter Specialty Spiced Beer

## **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.1 liter(s)

# **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.3 liter(s) / kg
- Mash size 21.8 liter(s)
- Total mash volume 28.4 liter(s)

#### **Steps**

- Temp **64 C**, Time **50 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 5 min

# Mash step by step

- Heat up 21.8 liter(s) of strike water to 70.7C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 15.9 liter(s) of 76C water or to achieve 31.1 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg <i>(56.3%)</i>	81 %	4
Grain	Monachijski typ II	2 kg <i>(28.2%)</i>	79 %	22
Sugar	Laktoza	0.5 kg (7%)	76.1 %	0
Grain	Caramunich 3	0.5 kg (7%)	76 %	150
Grain	Carafa Special III	0.1 kg (1.4%)	70 %	1400

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Tradition	50 g	60 min	5.2 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale T-58	Ale	Dry	11.5 g	Fermentis

#### **Extras**

Туре	Name	Amount	Use for	Time
Spice	Cynamon	15 g	Boil	5 min

Spice	Goździki	15 g	Boil	5 min
Spice	Kolendra	15 g	Boil	5 min