

Świąteczne

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **28**
- SRM **32**
- Style **Christmas/Winter Specialty Spiced Beer**

Batch size

- Expected quantity of finished beer **8 liter(s)**
- Trub loss **5 %**
- Size with trub loss **8.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **10.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.6 liter(s)**
- Total mash volume **8.8 liter(s)**

Steps

- Temp **68 C**, Time **60 min**

Mash step by step

- Heat up **6.6 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **5.7 liter(s)** of **76C** water or to achieve **10.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale	1.5 kg (68.2%)	85 %	4
Grain	Monachijski	0.5 kg (22.7%)	80 %	16
Grain	Strzegom Czekoladowy ciemny	0.2 kg (9.1%)	68 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	60 min	10 %
Boil	Lublin (Lubelski)	10 g	5 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	6 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Spice	Przyprawa korzenna (piernikowa)	20 g	Boil	5 min
Spice	Przyprawa korzenna (piernikowa)	20 g	Secondary	7 day(s)

Notes

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

- Ilość przyprawy do eksperymentów
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