

Pszeniczne ciemne

- Gravity **11.2 BLG**
- ABV ---
- IBU **13**
- SRM ---
- Style **Weizen/Weissbier**

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 **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.4 liter(s)**
- Total mash volume **20.5 liter(s)**

Steps

- Temp **44 C**, Time **15 min**
- Temp **63 C**, Time **15 min**
- Temp **72 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **15.4 liter(s)** of strike water to **48C**
- Add grains
- Keep mash **15 min** at **44C**
- Keep mash **15 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **45 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **21.4 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	2.75 kg (53.7%)	--- %	---
Grain	Monachijski	1 kg (19.5%)	--- %	---
Grain	Wiedeński	1 kg (19.5%)	--- %	---
Grain	Karmelowy ciemny	0.25 kg (4.9%)	--- %	---
Grain	Czekoladowy	0.12 kg (2.3%)	--- %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lubelski	37 g	60 min	3.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis S04	Ale	Slant	100 ml	---

Notes

- Słód czekoladowy dodajemy po godzinie zacierania i zacieramy 15 min w temp 72

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

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