

# pszeniczne ciemne

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- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **6**
- SRM **13.4**
- Style **Weizenbock**

## Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.3 liter(s)**
- Total mash volume **16.4 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 **10 min**

## Mash step by step

- Heat up **12.3 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 **10 min** at **78C**
- Sparge using **12 liter(s)** of **76C** water or to achieve **20.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	2.2 kg (53.7%)	85 %	4
Grain	Monachijski	0.8 kg (19.5%)	80 %	16
Grain	Strzegom Wiedeński	0.8 kg (19.5%)	79 %	10
Grain	Strzegom Karmel 150	0.2 kg (4.9%)	75 %	150
Grain	Czekoladowy	0.1 kg (2.4%)	60 %	788

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	12 g	60 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Slant	700 ml	Fermentum Mobile