

# Pszeniczne ciemne

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **14**
- SRM **10.2**
- Style **Dunkelweizen**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 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 **15 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 **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **25.3 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 | Monachijski Ciemny Steinbach | 0.2 kg (4.9%)  | 100 % | 30  |
| Grain | Czekoladowy                  | 0.1 kg (2.4%)  | 60 %  | 788 |

## Hops

| Use for | Name              | Amount | Time   | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil    | Lublin (Lubelski) | 30 g   | 60 min | 4 %        |

## Yeasts

| Name                  | Type  | Form | Amount | Laboratory |
|-----------------------|-------|------|--------|------------|
| Mauribrew Weiss Y1433 | Wheat | Dry  | 12.5 g | Mauribrew  |