

# Pszeniczne Ciemności (Pszeniczne Ciemne 12 BLG TwojBrowar.PL)

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **16**
- SRM **15**
- Style **Dunkelweizen**

## Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **21.6 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.65 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.1 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 **15 liter(s)** of strike water to **47.3C**
- 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 **10.7 liter(s)** of **76C** water or to achieve **21.6 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 Czekoladowy ciemny   | 0.1 kg (2.4%)  | 68 %  | 1200 |
| Grain | Karmelowy Pszeniczny Strzegom | 0.2 kg (4.9%)  | 79 %  | 130  |

## Hops

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

## Yeasts

| Name          | Type  | Form | Amount | Laboratory |
|---------------|-------|------|--------|------------|
| Safbrew WB-06 | Wheat | Dry  | 11 g   | Safbrew    |

## Notes

- Słody ciemne dodać w przerwie "72 stopnie - 15 minut".  
*Jun 3, 2017, 11:19 AM*