

Pszeniczne Ciemne

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **19**
- SRM **12**
- Style **Dunkelweizen**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **26.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.3 liter(s)**
- Total mash volume **18.4 liter(s)**

Steps

- Temp **45 C**, Time **10 min**
- Temp **53 C**, Time **15 min**
- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **14.3 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **10 min** at **45C**
- Keep mash **15 min** at **53C**
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **26.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann pszeniczny jasny	1.9 kg (46.3%)	80 %	6
Grain	Pilzneński	1.3 kg (31.7%)	81 %	4
Grain	Monachijski typ II 20-25 EBC Weyermann	0.6 kg (14.6%)	80 %	20
Grain	Weyermann - Carawheat	0.2 kg (4.9%)	77 %	97
Grain	Fawcett - Pszeniczny Czekoladowy	0.1 kg (2.4%)	73 %	1001

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Comet	10 g	70 min	8.3 %
Boil	Comet	10 g	30 min	8.3 %
Boil	Comet	10 g	5 min	8.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale WB-06	Wheat	Dry	11.5 g	---