

# CIEMNE PSZENICZNE

- Gravity **12.9 BLG**
- ABV ---
- IBU **20**
- SRM **16**
- Style **Dunkelweizen**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **3 %**
- Size with trub loss **21.2 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

## Steps

- Temp **40 C**, Time **10 min**
- Temp **52 C**, Time **25 min**
- Temp **66 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **15.6 liter(s)** of strike water to **43.3C**
- Add grains
- Keep mash **10 min** at **40C**
- Keep mash **25 min** at **52C**
- Keep mash **90 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **26.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ II	1.6 kg (30.8%)	79 %	22
Grain	Wheat Malt, Dark	2 kg (38.5%)	82 %	18
Grain	Wheat Malt, White	1 kg (19.2%)	85 %	5
Grain	Caramunich® typ I	0.25 kg (4.8%)	73 %	80
Grain	Carawheat	0.25 kg (4.8%)	68 %	125
Grain	Pszeniczny Czekoladowy	0.1 kg (1.9%)	73 %	1001

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northern Brewer	16 g	90 min	9 %
Boil	Tettnang	16 g	15 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
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Mangrove Jack's M20 Bavarian Wheat	Wheat	Dry	10 g	Mangrove Jack's
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### Notes

- 7 dni burzliwej  
7 dni cichej  
*Apr 4, 2017, 7:45 PM*