

## Pils czeski - 12blg

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **39**
- SRM **4.1**
- Style **German Pilsner (Pils)**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **80 min**
- Evaporation rate **15 %/h**
- Boil size **28.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **50 C**, Time **0 min**
- Temp **54 C**, Time **10 min**
- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **10 min**

### Mash step by step

- Heat up **17.5 liter(s)** of strike water to **54.3C**
- Add grains
- Keep mash **0 min** at **50C**
- Keep mash **10 min** at **54C**
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **72C**
- Sparge using **16.3 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (80%)	81 %	4
Grain	Monachijski	0.5 kg (10%)	80 %	16
Grain	Briess - Carapils Malt	0.5 kg (10%)	74 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	10 %
Aroma (end of boil)	Saaz (Czech Republic)	30 g	15 min	4.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Gozdawa - Czech Pilsner	Lager	Dry	10 g	Gozdawa