

## Pils czeski (Marxam)

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **45**
- SRM **4.1**

### 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 **14.1 liter(s)**
- Total mash volume **18.8 liter(s)**

### Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **14.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4 kg (85.1%)	82 %	4
Grain	Monachijski	0.5 kg (10.6%)	80 %	16
Grain	Carabody	0.2 kg (4.3%)	10 %	8

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Premiant	40 g	60 min	8 %
Boil	Premiant	25 g	10 min	8 %
Aroma (end of boil)	Premiant	35 g	0 min	8 %
Aroma (end of boil)	Saaz (Czech Republic)	25 g	0 min	4.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM30 Bohemska rapsodia	Lager	Liquid	100 ml	Fermentum Mobile

### Notes

- 36 godzin wcześniej z fiolki FM30 zrobiony starter 1 litr i 100g suszonego jasnego ekstraktu słodowego WES.  
*Feb 10, 2023, 7:33 PM*

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.