

## Pierwsze mocne piwo (PMP)

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- Gravity **17.7 BLG**
- ABV ---
- IBU **50**
- SRM **12.5**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **27.6 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **16 liter(s)**
- Total mash volume **24 liter(s)**

### Steps

- Temp **64 C**, Time **70 min**

### Mash step by step

- Heat up **16 liter(s)** of strike water to **75C**
- Add grains
- Keep mash **70 min** at **64C**
- Sparge using **19.6 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	6 kg (75%)	70 %	10
Grain	Strzegom Monachijski typ I	2 kg (25%)	70 %	16

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	50 g	0 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM30 Bohemska rapsodia	Lager	Liquid	200 ml	Fermentum Mobile