

## Piwo #1

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- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **72**
- SRM **4.7**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **5 min**

### Mash step by step

- Heat up **19.5 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **72C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (76.9%)	80 %	5
Grain	Pszeniczny	1 kg (15.4%)	85 %	4
Grain	Pilzneński	0.5 kg (7.7%)	81 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	30 g	25 min	12 %
Boil	Cascade	30 g	50 min	6 %
Boil	Mosaic	50 g	25 min	10 %
Dry Hop	Citra	70 g	7 day(s)	12 %
Dry Hop	Amarillo	50 g	7 day(s)	9.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis