

## PIPA (TT)

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- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **78**
- SRM **5.1**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **22.4 liter(s)**
- Total mash volume **29.4 liter(s)**

### Steps

- Temp **40 C**, Time **0 min**
- Temp **63 C**, Time **50 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **15 min**

### Mash step by step

- Heat up **22.4 liter(s)** of strike water to **43.1C**
- Add grains
- Keep mash **0 min** at **40C**
- Keep mash **50 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	7 kg (100%)	79 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	90 g	60 min	10 %
Dry Hop	lunga	60 g	7 day(s)	11 %
Dry Hop	Oktawia	60 g	7 day(s)	7.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	---