

## Porucznik AIPA (24)

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- Gravity **16.6 BLG**
- ABV ---
- IBU **82**
- SRM **6.9**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.25 liter(s) / kg**
- Mash size **23.7 liter(s)**
- Total mash volume **31 liter(s)**

### Steps

- Temp **52 C**, Time **10 min**
- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **2 min**

### Mash step by step

- Heat up **23.7 liter(s)** of strike water to **56.9C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **45 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	1 kg (13.7%)	80 %	4
Grain	Briess - Pale Ale Malt	5.7 kg (78.1%)	80 %	7
Grain	Pszeniczny	0.6 kg (8.2%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	55 g	60 min	10 %
Boil	Chinook	30 g	30 min	13 %
Boil	Centennial	30 g	10 min	10.5 %
Dry Hop	Amarillo	50 g	6 day(s)	9.5 %

### Yeasts

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