

# Ciche Pale Ale

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- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **39**
- SRM **4.9**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.7 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **32.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **22 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **15 min**

## Mash step by step

- Heat up **16.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **15 min** at **72C**
- Sparge using **21.3 liter(s)** of **76C** water or to achieve **32.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (90.9%)	79 %	6
Grain	Carahell	0.5 kg (9.1%)	77 %	26

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	30 min	13.5 %
Boil	Cascade	20 g	30 min	7 %
Boil	Cascade	10 g	15 min	7 %
Boil	Citra	10 g	15 min	13.5 %
Boil	Cascade	20 g	0 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis US-05	Ale	Dry	10 g	---

## Notes

- Moje pierwsze piwo wykonane przy pomocy Cichego.  
*Feb 6, 2017, 8:47 PM*