

# Atak Chmielu 2021

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- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **35**
- SRM **7.1**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **30 liter(s)**

## Steps

- Temp **64 C**, Time **80 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **22.5 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **80 min** at **64C**
- Keep mash **10 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **31.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (80%)	80 %	5
Grain	Weyermann - Carapils	0.5 kg (6.7%)	78 %	4
Grain	Weyermann - Carared	1 kg (13.3%)	75 %	45

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	30 g	60 min	13.2 %
Boil	Cascade	30 g	5 min	6 %
Aroma (end of boil)	Citra	30 g	0 min	14 %
Aroma (end of boil)	Cascade	60 g	0 min	6 %
Dry Hop	Chinook	30 g	2 day(s)	13 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	100 ml	Fermentis