

# APA

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- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **75**
- SRM **4.2**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **33 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **21 liter(s)** of **76C** water or to achieve **33 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	1 kg (16.7%)	79 %	10
Grain	Viking Pale Ale malt	5 kg (83.3%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Summit	10 g	45 min	17 %
Boil	Columbus/Tomahawk/Zeus	10 g	45 min	15.5 %
Boil	Summit	10 g	30 min	17 %
Boil	Columbus/Tomahawk/Zeus	10 g	30 min	15.5 %
Boil	Summit	10 g	15 min	17 %
Boil	Columbus/Tomahawk/Zeus	10 g	15 min	15.5 %
Aroma (end of boil)	Centennial	10 g	5 min	10.5 %
Aroma (end of boil)	Cascade	10 g	5 min	6 %
Aroma (end of boil)	Citra	10 g	5 min	12 %
Whirlpool	Centennial	10 g	20 min	10.5 %
Whirlpool	Cascade	10 g	20 min	6 %
Whirlpool	Citra	10 g	20 min	12 %

Dry Hop	Centennial	30 g	2 day(s)	10.5 %
Dry Hop	Cascade	30 g	2 day(s)	6 %
Dry Hop	Citra	30 g	2 day(s)	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

### Extras

Type	Name	Amount	Use for	Time
Fining	Irish Moss	10 g	Boil	15 min

### Notes

- Pomysł na lekkie piwo codzienne, stąd warka 30 litrów.

W sumie 250 g chmielu  
*Nov 27, 2017, 7:25 PM*