

# APA 112

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **38**
- SRM **4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **23.2 liter(s)**

## Steps

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

## Mash step by step

- Heat up **18 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **14 liter(s)** of **76C** water or to achieve **26.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (58.3%)	80 %	4
Grain	Strzegom Pszeniczny	0.1 kg (1.9%)	81 %	6
Grain	Żytni	0.05 kg (1%)	85 %	8
Grain	Strzegom Pale Ale	2 kg (38.8%)	79 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	16 g	60 min	13.5 %
Boil	Citra	25 g	15 min	12 %
Dry Hop	Mosaic	50 g	3 day(s)	10 %
Dry Hop	Citra	33 g	3 day(s)	12 %
Dry Hop	Chinook	17 g	3 day(s)	13 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	100 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Flavor	herbata	50 g	Secondary	1 day(s)
12h				