

# APAsz

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- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **43**
- SRM **6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **40 min**
- Evaporation rate **12 %/h**
- Boil size **29.1 liter(s)**

## Mash information

- Mash efficiency **92 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **15.3 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **18.9 liter(s)** of **76C** water or to achieve **29.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.3 kg (84.3%)	80 %	5
Grain	Cookie Viking Malt	0.5 kg (9.8%)	77 %	70
Grain	Słód pszeniczny Bestmalz	0.3 kg (5.9%)	82 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zeus	25 g	40 min	14 %
Boil	Galaxy	20 g	10 min	14.5 %
Whirlpool	Amarillo	20 g	20 min	9.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M66	Ale	Slant	100 ml	---

## Extras

Type	Name	Amount	Use for	Time
Fining	Whirlfloc	5 g	Boil	10 min