

# agre

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- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU ---
- SRM **4.9**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

## Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **19.3 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **11.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	1 kg (16.7%)	79 %	10
Grain	Briess DME - Golden Light	1 kg (16.7%)	95 %	8
Grain	Viking Pale Ale malt	2.5 kg (41.7%)	80 %	5
Grain	Pszeniczny	0.5 kg (8.3%)	85 %	4
Grain	Płatki owsiane	0.5 kg (8.3%)	85 %	3
Sugar	Milk Sugar (Lactose)	0.5 kg (8.3%)	76.1 %	0