

# English Pale Ale

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- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **50**
- SRM **5.5**

## Batch size

- Expected quantity of finished beer **23.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.7 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **15.1 liter(s)**
- Total mash volume **21.2 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

## Mash step by step

- Heat up **15.1 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **20.7 liter(s)** of **76C** water or to achieve **29.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Karmelowy Jasny 30EBC	0.75 kg (12.4%)	75 %	30
Grain	Viking Wheat Malt	0.8 kg (13.2%)	83 %	5
Grain	Viking Pale Ale malt	4.5 kg (74.4%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northdown	40 g	60 min	8.1 %
Boil	Northdown	40 g	30 min	8.1 %
Aroma (end of boil)	Northdown	20 g	0 min	8.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Finning	mech irlandzki	5 g	Boil	15 min