

# Pale Ale 20L

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- Gravity **12.8 BLG**
- ABV ---
- IBU **50**
- SRM **5.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **10 %**
- Size with trub loss **24.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.8 liter(s)**
- Total mash volume **22.9 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**

## Mash step by step

- Heat up **17.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **19 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg (98%)	79 %	6
Grain	Strzegom Karmel 30	0.1 kg (2%)	75 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	10 g	60 min	13.5 %
Boil	Citra	10 g	25 min	13.5 %
Boil	Simcoe	10 g	25 min	13 %
Boil	Citra	10 g	10 min	13.5 %
Boil	Simcoe	10 g	10 min	13 %
Aroma (end of boil)	Amarillo	15 g	5 min	9.5 %
Aroma (end of boil)	Citra	15 g	5 min	13.5 %
Whirlpool	Simcoe	10 g	0 min	13 %
Whirlpool	Amarillo	15 g	0 min	9.5 %
Whirlpool	Citra	10 g	0 min	12 %
Dry Hop	Amarillo	30 g	3 day(s)	9.5 %
Dry Hop	Citra	30 g	---	12 %

## Yeasts

<b>Name</b>	<b>Type</b>	<b>Form</b>	<b>Amount</b>	<b>Laboratory</b>
Safale US-05	Ale	Slant	300 ml	Fermentis