

# Caramel Ale #1

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **28**
- SRM **21.1**
- Style **Specialty Beer**

## 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 **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

## Steps

- Temp **70 C**, Time **60 min**
- Temp **78 C**, Time **15 min**

## Mash step by step

- Heat up **19.5 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **60 min** at **70C**
- Keep mash **15 min** at **78C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	BESTMALZ - Bestt Pale Ale	4 kg (61.5%)	80.5 %	6
Grain	BESTMALZ - Best Melanoidin	1 kg (15.4%)	75 %	71
Grain	Weyermann - Carared	1 kg (15.4%)	75 %	45
Grain	Caraaroma	0.5 kg (7.7%)	78 %	400

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	25 g	60 min	7 %
Boil	Challenger	25 g	20 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	23 g	Safale

## Extras

Type	Name	Amount	Use for	Time
Fining	Whirfloc	0.5 g	Boil	15 min

Fining	Żelatyna	5 g	Secondary	3 day(s)
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