

# Summer Ale 12blg

- Gravity **10 BLG**
- ABV **4 %**
- IBU **32**
- SRM **3.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **28.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **17.2 liter(s)**

## Steps

- Temp **63 C**, Time **30 min**
- Temp **73 C**, Time **30 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **12.9 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **73C**
- Keep mash **1 min** at **78C**
- Sparge using **20.2 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg (46.5%)	80 %	4
Grain	pszeniczny	0.3 kg (7%)	--- %	---
Grain	Strzegom Wiedeński	1.6 kg (37.2%)	79 %	10
Grain	karmelowy	0.4 kg (9.3%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	5 g	60 min	15 %
Boil	Motueka	20 g	15 min	7 %
Boil	Amarillo	20 g	10 min	9.5 %
Boil	Galaxy	25 g	5 min	15 %

## Yeasts

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