

# Centennial SMaSH

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **35**
- SRM **3.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **12.1 liter(s)**

## Mash information

- Mash efficiency **74 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.8 liter(s)**
- Total mash volume **9 liter(s)**

## Steps

- Temp **66 C**, Time **50 min**

## Mash step by step

- Heat up **6.8 liter(s)** of strike water to **73.6C**
- Add grains
- Keep mash **50 min** at **66C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **12.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2 kg (85.1%)	81 %	4
Grain	Płatki owsiane	0.25 kg (10.6%)	85 %	3
Dry Extract	Briess DME - Golden Light	0.1 kg (4.3%)	95 %	8

W przypadku gdy będzie za mało PLATO.

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	10 g	60 min	9.4 %
Boil	Centennial	10 g	20 min	9.4 %
Boil	Centennial	10 g	1 min	9.4 %
Dry Hop	Centennial	30 g	5 day(s)	10.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	5 g	Fermetis