

# Smoked Stout

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- Gravity **17.7 BLG**
- ABV **7.6 %**
- IBU **55**
- SRM **47.1**
- Style **Foreign Extra Stout**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **13 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.7 liter(s)**
- Total mash volume **31.6 liter(s)**

## Steps

- Temp **67 C**, Time **70 min**
- Temp **72 C**, Time **5 min**

## Mash step by step

- Heat up **23.7 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **5 min** at **72C**
- Sparge using **9.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Weyermann - Smoked Malt     | 2.2 kg (27.8%) | 81 %  | 6    |
| Grain | Słód Wędzony Steinbach      | 2 kg (25.3%)   | 80 %  | 5    |
| Grain | Viking Pale Ale malt        | 1.4 kg (17.7%) | 80 %  | 5    |
| Grain | płatki jęczmienne           | 0.5 kg (6.3%)  | 60 %  | 4    |
| Grain | Strzegom Karmel 300         | 0.5 kg (6.3%)  | 70 %  | 299  |
| Grain | Biscuit Malt                | 0.4 kg (5.1%)  | 79 %  | 45   |
| Grain | Weyermann - Chocolate Wheat | 0.2 kg (2.5%)  | 74 %  | 900  |
| Grain | Simpsons - Chocolate Malt   | 0.2 kg (2.5%)  | 73 %  | 788  |
| Grain | Jęczmień palony             | 0.5 kg (6.3%)  | 55 %  | 1100 |

## Hops

| Use for | Name     | Amount | Time   | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil    | Pałacowy | 70 g   | 60 min | 8.5 %      |

## Yeasts

| <b>Name</b>  | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale         | Slant       | 400 ml        | Fermentis         |