

# Stout

- Gravity **13.8 BLG**
- ABV ---
- IBU **46**
- SRM **70.5**
- Style **Dry Stout**

## 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 **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **65 C**, Time **45 min**
- Temp **72 C**, Time **15 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **45 min** at **65C**
- Keep mash **15 min** at **72C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount       | Yield | EBC  |
|-------|-----------------------------|--------------|-------|------|
| Grain | Viking Pale Ale malt        | 2 kg (40%)   | 80 %  | 5    |
| Grain | Strzegom Monachijski typ II | 1 kg (20%)   | 79 %  | 22   |
| Grain | Jęczmień palony             | 0.25 kg (5%) | 55 %  | 985  |
| Grain | Carafa III                  | 0.25 kg (5%) | 70 %  | 1034 |
| Grain | płatki jęczmienne           | 0.5 kg (10%) | 70 %  | 4    |
| Grain | Strzegom Czekoladowy 1200   | 0.5 kg (10%) | 68 %  | 1202 |
| Grain | Weyermann - Carapils        | 0.5 kg (10%) | 78 %  | 4    |

## Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | Challenger | 50 g   | 60 min | 5.8 %      |
| Boil    | Cascade    | 20 g   | 30 min | 6.8 %      |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |

## Extras

| Type   | Name                             | Amount | Use for   | Time      |
|--------|----------------------------------|--------|-----------|-----------|
| Flavor | płatki dębowe<br>bouron Jim Beam | 50 g   | Secondary | 10 day(s) |