

# RIS

- Gravity **21.3 BLG**
- ABV **9.5 %**
- IBU **142**
- SRM **62.5**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **3 %**
- Size with trub loss **25.4 liter(s)**
- Boil time **700 min**
- Evaporation rate **10 %/h**
- Boil size **60.2 liter(s)**

## Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **32.4 liter(s)**

## Steps

- Temp **62 C**, Time **60 min**
- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

## Mash step by step

- Heat up **23.1 liter(s)** of strike water to **70.4C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **60 min** at **62C**
- Keep mash **10 min** at **72C**
- Sparge using **46.4 liter(s)** of **76C** water or to achieve **60.2 liter(s)** of wort

## Fermentables

| Type  | Name                                   | Amount          | Yield | EBC  |
|-------|--|-----------------|-------|------|
| Grain | Viking Pilsner malt                    | 2.35 kg (25.4%) | 82 %  | 4    |
| Grain | Viking Munich Malt                     | 2.11 kg (22.8%) | 78 %  | 18   |
| Grain | Viking Pale Ale malt                   | 0.99 kg (10.7%) | 80 %  | 5    |
| Grain | Fawcett -<br>Pszeniczny<br>Czekoladowy | 1.3 kg (14.1%)  | 73 %  | 1150 |
| Grain | Jęczmień palony                        | 0.5 kg (5.4%)   | 55 %  | 985  |
| Grain | Oats, Flaked                           | 0.5 kg (5.4%)   | 80 %  | 2    |
| Grain | Barley, Flaked                         | 1 kg (10.8%)    | 70 %  | 4    |
| Grain | Wheat, Flaked                          | 0.5 kg (5.4%)   | 77 %  | 4    |

## Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | lunga | 200 g  | 60 min | 11 %       |

## Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale  | Slant | 170 ml | Fermentis  |