

## sweet stout

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- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **26**
- SRM **35.9**
- Style **Sweet Stout**

### Batch size

- Expected quantity of finished beer **10.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **13.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.5 liter(s)**
- Total mash volume **12.2 liter(s)**

### Steps

- Temp **68 C**, Time **75 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **9.5 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **75 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **6.5 liter(s)** of **76C** water or to achieve **13.3 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount          | Yield  | EBC  |
|-------|-----------------------------|-----------------|--------|------|
| Grain | Viking Pale Ale malt        | 1.85 kg (61.7%) | 90 %   | 5    |
| Grain | Strzegom Monachijski typ II | 0.5 kg (16.7%)  | 79 %   | 22   |
| Grain | Czekoladowy                 | 0.125 kg (4.2%) | 60 %   | 1000 |
| Grain | Chocolate Malt (UK)         | 0.125 kg (4.2%) | 73 %   | 887  |
| Grain | Carafa III                  | 0.1 kg (3.3%)   | 1 %    | 1400 |
| Sugar | Milk Sugar (Lactose)        | 0.3 kg (10%)    | 76.1 % | 0    |

### Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Cascade | 10 g   | 60 min | 8 %        |
| Boil    | Cascade | 10 g   | 30 min | 8 %        |

### Yeasts

| Name  | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale  | Dry  | 5.5 g  | ---        |

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|       |                 |      |           |           |
|-------|-----------------|------|-----------|-----------|
| Spice | Ziarno kakaowca | 50 g | Secondary | 14 day(s) |
|-------|-----------------|------|-----------|-----------|

## Notes

- Laktoza na wygrzew.  
Carafa na filtrację.  
*Dec 11, 2020, 9:10 PM*