

# Tomi\_Stout\_Milk

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **34**
- SRM **36.5**
- Style **Sweet Stout**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **6.5 %**
- Size with trub loss **16.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **20 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4.1 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.4 liter(s)**

## Steps

- Temp **68 C**, Time **75 min**
- Temp **78 C**, Time **10 min**
- Temp **100 C**, Time **60 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **73.9C**
- Add grains
- Keep mash **75 min** at **68C**
- Keep mash **10 min** at **78C**
- Keep mash **60 min** at **100C**
- Sparge using **6.4 liter(s)** of **76C** water or to achieve **20 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt        | 3 kg (68.2%)   | 80 %  | 5    |
| Grain | Strzegom Monachijski typ I  | 0.5 kg (11.4%) | 79 %  | 16   |
| Grain | Carahell                    | 0.25 kg (5.7%) | 77 %  | 26   |
| Grain | Strzegom Czekoladowy jasny  | 0.25 kg (5.7%) | 68 %  | 400  |
| Grain | Strzegom Czekoladowy ciemny | 0.2 kg (4.5%)  | 68 %  | 1200 |
| Grain | Thomas Fawcet Chocolate     | 0.2 kg (4.5%)  | 68 %  | 1202 |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Cascade | 20 g   | 60 min | 7.8 %      |
| Boil    | Cascade | 15 g   | 30 min | 7.8 %      |

## Yeasts

| Name        | Type | Form | Amount  | Laboratory |
|-------------|------|------|---------|------------|
| Safale S-04 | Ale  | Dry  | 17.25 g | Fermentis  |

## Extras

| Type   | Name    | Amount | Use for | Time   |
|--------|---------|--------|---------|--------|
| Flavor | Laktoza | 375 g  | Boil    | 15 min |