

#38 - 3 ver. - Milk Stout

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **27**
- SRM **32.1**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **31.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **34.6 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.7 liter(s) / kg**
- Mash size **22 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **68 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **22 liter(s)** of strike water to **74.5C**
- Add grains
- Keep mash **40 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **34.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|-----------------------------|----------------|--------|------|
| Grain | Strzegom Pale Ale | 3 kg (43.2%) | 79 % | 6 |
| Grain | Strzegom Wiedeński | 1 kg (14.4%) | 79 % | 10 |
| Grain | Płatki owsiane | 0.5 kg (7.2%) | 85 % | 3 |
| Grain | Strzegom Pszeniczny | 0.5 kg (7.2%) | 81 % | 6 |
| Grain | Strzegom Karmel 300 | 0.15 kg (2.2%) | 70 % | 299 |
| Grain | Strzegom Karmel 600 | 0.15 kg (2.2%) | 68 % | 601 |
| Grain | Strzegom Czekoladowy ciemny | 0.15 kg (2.2%) | 68 % | 1200 |
| Grain | Carafa III | 0.3 kg (4.3%) | 70 % | 1034 |
| Grain | Strzegom Barwiący | 0.2 kg (2.9%) | 68 % | 1300 |
| Adjunct | Laktoza | 1 kg (14.4%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnum | 30 g | 60 min | 12 % |

Yeasts

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Name | Type | Form | Amount | Laboratory |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-04 | Ale | Dry | 11 g | Safale |