

#31 Vanilla Sweet Stout

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **22**
- SRM **37.8**
- Style **Sweet Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **26.1 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.3 liter(s)**
- Total mash volume **28.4 liter(s)**

Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **70 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21.3 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **15 min** at **70C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **11.9 liter(s)** of **76C** water or to achieve **26.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 4 kg (56.3%) | 80 % | 5 |
| Grain | Strzegom karmelowy | 0.4 kg (5.6%) | 68 % | 400 |
| Grain | Strzegom Czekoladowy ciemny | 0.3 kg (4.2%) | 68 % | 1200 |
| Grain | Płatki owsiane | 1.2 kg (16.9%) | 85 % | 3 |
| Grain | Pszeniczny | 1 kg (14.1%) | 85 % | 4 |
| Grain | Strzegom Barwiący | 0.2 kg (2.8%) | 68 % | 1300 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|--------|------------|
| Boil | Marynka | 30 g | 60 min | 6.7 % |
| Aroma (end of boil) | Lublin (Lubelski) | 30 g | 10 min | 2.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|-------|--------|------------|
| Us-05 | Ale | Slant | 500 ml | Safale |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------------------------|--------|-----------|----------|
| Flavor | laktoza | 500 g | Secondary | 5 day(s) |
| Flavor | laska wanilii moczone w wódce | 5 g | Secondary | 3 day(s) |