

#31 Pastry Stout

- Gravity **24.4 BLG**
- ABV **11.3 %**
- IBU **51**
- SRM **78**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **13.8 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **25.2 liter(s)**

Steps

- Temp **68 C**, Time **40 min**
- Temp **70 C**, Time **40 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **19.6 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **40 min** at **68C**
- Keep mash **40 min** at **70C**
- Keep mash **5 min** at **78C**
- Sparge using **-0.2 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------------|----------------|--------|------|
| Grain | Viking Pale Ale malt | 2.3 kg (38.3%) | 80 % | 5 |
| Grain | Żytni | 0.9 kg (15%) | 85 % | 8 |
| Grain | Karmelowy Czerwony | 0.7 kg (11.7%) | 75 % | 59 |
| Grain | Strzegom Karmel 300 | 0.3 kg (5%) | 70 % | 299 |
| Grain | Fawcett - Pale Chocolate | 0.2 kg (3.3%) | 71 % | 600 |
| Grain | Weyermann - Carafa I | 0.2 kg (3.3%) | 70 % | 690 |
| Grain | Weyermann - Carafa II | 0.2 kg (3.3%) | 70 % | 837 |
| Grain | Weyermann - Dehusked Carafa III | 0.2 kg (3.3%) | 70 % | 1024 |
| Grain | Strzegom Czekoladowy ciemny | 0.2 kg (3.3%) | 68 % | 1200 |
| Grain | Strzegom pszenica prażona | 0.2 kg (3.3%) | 70 % | 1000 |
| Sugar | Milk Sugar (Lactose) | 0.4 kg (6.7%) | 76.1 % | 0 |
| Grain | Płatki owsiane | 0.2 kg (3.3%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnum | 30 g | 60 min | 12.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 200 ml | Fermentis |