

RIS

- Gravity **27.2 BLG**
- ABV **13 %**
- IBU **91**
- SRM **52.9**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **27.6 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **23.4 liter(s)**
- Total mash volume **32.7 liter(s)**

Steps

- Temp **64 C**, Time **70 min**
- Temp **75 C**, Time **15 min**

Mash step by step

- Heat up **23.4 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **70 min** at **64C**
- Keep mash **15 min** at **75C**
- Sparge using **13.6 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|----------------|----------------------------------|----------------|-------|------|
| Grain | Weyermann - Pale Ale Malt | 5.9 kg (53.4%) | 85 % | 7 |
| Grain | Strzegom Monachijski typ II | 1 kg (9%) | 79 % | 22 |
| Grain | pszeniczny czekoladowy Weyermann | 0.25 kg (2.3%) | 75 % | 1070 |
| Grain | Palony jęczmień Weyermann | 0.3 kg (2.7%) | 55 % | 1000 |
| Grain | płatki jęczmienne | 0.25 kg (2.3%) | 70 % | 5 |
| Grain | Carafa III | 0.25 kg (2.3%) | 70 % | 1034 |
| Grain | Weyermann Specjal W | 0.3 kg (2.7%) | 68 % | 300 |
| Grain | castle malting coffe | 0.5 kg (4.5%) | 78 % | 470 |
| Liquid Extract | EKSTRAKT SŁODOWY jasny Bruntal | 1.7 kg (15.4%) | 81 % | 25 |
| Grain | Fawcett - Brown | 0.3 kg (2.7%) | 72 % | 180 |
| Grain | Carahell | 0.3 kg (2.7%) | 77 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------------|--------|--------|------------|
| Boil | lunga | 100 g | 60 min | 10.3 % |
| Boil | lunga | 40 g | 60 min | 9.4 % |
| Boil | Lublin (Lubelski) | 30 g | 15 min | 5.7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 400 ml | --- |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------|--------|---------|--------|
| Fining | Whirlfloc T | 1 g | Boil | 10 min |