

RIS 1

- Gravity **24.4 BLG**
- ABV **11.3 %**
- IBU **86**
- SRM **59.4**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **0 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **27 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **5 min** at **76C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **27 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|----------------|-----------------------------------|----------------|-------|------|
| Grain | Strzegom Pale Ale | 3 kg (31.9%) | 79 % | 6 |
| Grain | Special B Castlemalting | 0.5 kg (5.3%) | 77 % | 350 |
| Grain | Karmelowy Pszeniczny Strzegom | 0.25 kg (2.7%) | 75 % | 130 |
| Grain | Weyermann jęczmień palony | 0.5 kg (5.3%) | 65 % | 1100 |
| Grain | Weyermann -czekoladowy pszeniczny | 0.5 kg (5.3%) | 65 % | 1000 |
| Grain | Weyermann - Carafa II special | 0.25 kg (2.7%) | 65 % | 1100 |
| Grain | Płatki pszeniczne | 0.5 kg (5.3%) | 70 % | 3 |
| Grain | Płatki owsiane | 0.5 kg (5.3%) | 70 % | 3 |
| Liquid Extract | Bruntal | 3.4 kg (36.2%) | 81 % | 26 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Warrior | 70 g | 60 min | 15 % |
| Boil | Warrior | 20 g | 20 min | 15 % |
| Boil | lunga | 30 g | 7 min | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|-------------|
| Safale US-05 | Ale | Slant | 220 ml | jednodniowa |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|------------------------------------|--------|-----------|-----------|
| Other | płatki dębowe średnio wypiekane | 50 g | Secondary | 20 day(s) |
| Other | łuska ryżowa | 100 g | Mash | --- |
| Water Agent | węglan wapnia kreda | 10 g | Mash | --- |