

## RIS#2

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- Gravity **26.7 BLG**
- ABV ---
- IBU **81**
- SRM **40**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **10 %**
- Size with trub loss **19.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **15 %/h**
- Boil size **24.3 liter(s)**

### Mash information

- Mash efficiency **62 %**
- Liquor-to-grist ratio **1.5 liter(s) / kg**
- Mash size **17.7 liter(s)**
- Total mash volume **29.5 liter(s)**

### Steps

- Temp **62 C**, Time **10 min**
- Temp **68 C**, Time **80 min**
- Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **15 min**

### Mash step by step

- Heat up **17.7 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **10 min** at **62C**
- Keep mash **80 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **24.3 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount        | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Pale Ale          | 7 kg (59.3%)  | 79 %  | 6   |
| Grain | Strzegom Wiedeński         | 1 kg (8.5%)   | 79 %  | 10  |
| Grain | Pszeniczny                 | 1 kg (8.5%)   | 85 %  | 4   |
| Grain | Oats, Flaked               | 1 kg (8.5%)   | 80 %  | 2   |
| Grain | Strzegom Czekoladowy jasny | 0.3 kg (2.5%) | 68 %  | 400 |
| Grain | Smoked Malt                | 0.5 kg (4.2%) | 80 %  | 18  |
| Grain | Jęczmień palony            | 0.3 kg (2.5%) | 55 %  | 985 |
| Grain | Caraaroma                  | 0.7 kg (5.9%) | 78 %  | 400 |

### Hops

| Use for | Name       | Amount | Time   | Alpha acid |
|---------|------------|--------|--------|------------|
| Boil    | Magnum     | 70 g   | 60 min | 13.5 %     |
| Boil    | Challenger | 25 g   | 30 min | 7 %        |
| Boil    | Sybilla    | 20 g   | 10 min | 3.5 %      |

### Yeasts

| <b>Name</b> | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-04 | Ale         | Slant       | 1000 ml       | Safale            |