

## RIS 08,02,2022 warka # 36

- Gravity **33.9 BLG**
- ABV **17.6 %**
- IBU **105**
- SRM **93.7**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

### Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **40.3 liter(s)**
- Total mash volume **56.4 liter(s)**

### Steps

- Temp **64 C**, Time **40 min**
- Temp **70 C**, Time **40 min**
- Temp **80 C**, Time **5 min**

### Mash step by step

- Heat up **40.3 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **40 min** at **70C**
- Keep mash **5 min** at **80C**
- Sparge using **2.3 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

### Fermentables

| Type        | Name                            | Amount        | Yield | EBC  |
|-------------|---------------------------------|---------------|-------|------|
| Grain       | Strzegom Pilzneński             | 10 kg (58.5%) | 80 %  | 4    |
| Grain       | Żytmi                           | 2 kg (11.7%)  | 85 %  | 8    |
| Dry Extract | Gozdawa ekstrakt słodowy jasny  | 1 kg (5.8%)   | 80 %  | 45   |
| Grain       | Abbey Castle                    | 1 kg (5.8%)   | 80 %  | 45   |
| Grain       | Strzegom Karmel 300             | 0.1 kg (0.6%) | 70 %  | 299  |
| Grain       | Strzegom Czekoladowy1200 ciemny | 1 kg (5.8%)   | 68 %  | 1200 |
| Grain       | Jęczmień prazony 900            | 1 kg (5.8%)   | 55 %  | 985  |
| Grain       | Weyermann - Carafa II           | 1 kg (5.8%)   | 70 %  | 837  |

### Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | Citra | 200 g  | 60 min | 12 %       |

### Yeasts

| <b>Name</b> | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|-------------|-------------|-------------|---------------|-------------------|
| kveik ESPE  | Ale         | Slant       | 200 ml        | ---               |