

Ris

- Gravity **24.6 BLG**
- ABV **11.4 %**
- IBU **57**
- SRM **39.5**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **56 liter(s)**
- Trub loss **5 %**
- Size with trub loss **58.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **70.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.2 liter(s) / kg**
- Mash size **64.9 liter(s)**
- Total mash volume **94.4 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **64.9 liter(s)** of strike water to **71.5C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **35.4 liter(s)** of **76C** water or to achieve **70.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|---------------|-------|------|
| Grain | Strzegom Pilzneński | 10 kg (33.9%) | 80 % | 4 |
| Grain | Strzegom Pale Ale | 10 kg (33.9%) | 79 % | 6 |
| Grain | Golden Ale Viking Malt | 1 kg (3.4%) | 95 % | 10 |
| Grain | strzegom Pale Cookie | 1 kg (3.4%) | 75 % | 8 |
| Grain | Strzegom Karmel 300 | 0.3 kg (1%) | 70 % | 299 |
| Grain | Carafa II | 0.6 kg (2%) | 70 % | 812 |
| Grain | Strzegom Czekoladowy ciemny | 0.6 kg (2%) | 68 % | 1200 |
| Grain | Płatki żytnie | 0.8 kg (2.7%) | 85 % | 3 |
| Grain | Płatki owsiane | 1.3 kg (4.4%) | 60 % | 3 |
| Grain | Strzegom Karmel 600 | 0.4 kg (1.4%) | 68 % | 601 |
| Grain | Strzegom pszenica prażona | 0.7 kg (2.4%) | 70 % | 1000 |
| Grain | Płatki pszeniczne | 0.6 kg (2%) | 60 % | 3 |
| Grain | Monachijski | 2.2 kg (7.5%) | 80 % | 16 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|----------|--------|------------|
| Boil | marynka | 207.41 g | 60 min | 6.5 % |
| Boil | Nugget | 51.85 g | 50 min | 10.1 % |
| Boil | Nugget | 103.7 g | 15 min | 10.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--|------|-------|------------|-----------------|
| Mangrove Jack's M42 New World Strong Ale | Ale | Slant | 1866.67 ml | Mangrove Jack's |