

Ris

- Gravity **22.7 BLG**
- ABV ---
- IBU **62**
- SRM **36.8**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **34.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **38.4 liter(s)**
- Total mash volume **51.2 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 **38.4 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **8.6 liter(s)** of **76C** water or to achieve **34.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|------|
| Grain | Strzegom Pilzneński | 7.5 kg (58.6%) | 80 % | 4 |
| Grain | Strzegom Pale Ale | 1.5 kg (11.7%) | 79 % | 6 |
| Grain | Strzegom Karmel 30 | 0.8 kg (6.2%) | 75 % | 30 |
| Grain | Carabelge | 1 kg (7.8%) | 80 % | 30 |
| Grain | Strzegom Karmel 300 | 0.3 kg (2.3%) | 70 % | 299 |
| Grain | Carafa | 0.3 kg (2.3%) | 70 % | 664 |
| Grain | Strzegom pszenica prażona | 0.3 kg (2.3%) | 70 % | 1000 |
| Grain | Strzegom Czekoladowy ciemny | 0.3 kg (2.3%) | 68 % | 1200 |
| Grain | Płatki żytnie | 0.4 kg (3.1%) | 85 % | 3 |
| Grain | płatki jęczmienne | 0.4 kg (3.1%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | marynka | 100 g | 60 min | 6.5 % |
| Boil | Nugget | 25 g | 50 min | 10.1 % |

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|------|--------|------|--------|--------|
| Boil | Nugget | 50 g | 15 min | 10.1 % |
|------|--------|------|--------|--------|

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--|------|-------|--------|-----------------|
| Mangrove Jack's M42 New World Strong Ale | Ale | Slant | 900 ml | Mangrove Jack's |