

RIS III

- Gravity **27.7 BLG**
- ABV **13.3 %**
- IBU **67**
- SRM **56.8**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.9 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **22.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **34.3 liter(s)**

Steps

- Temp **52 C**, Time **15 min**
- Temp **64 C**, Time **75 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **24.5 liter(s)** of strike water to **58.4C**
- Add grains
- Keep mash **15 min** at **52C**
- Keep mash **75 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **7.8 liter(s)** of **76C** water or to achieve **22.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|--------------|-------|------|
| Grain | Pale Ale Best | 5 kg (50%) | 80 % | 6 |
| Grain | Pilsner Malz Best | 2.5 kg (25%) | 81 % | 3 |
| Grain | Caramunich 2 Best | 0.4 kg (4%) | 73 % | 120 |
| Grain | Special X | 0.4 kg (4%) | 78 % | 350 |
| Grain | Chocolate | 0.4 kg (4%) | 55 % | 1000 |
| Grain | Carafa II Best | 0.1 kg (1%) | 65 % | 1100 |
| Grain | Black Barley (Roast Barley) | 0.5 kg (5%) | 55 % | 985 |
| Grain | Oats, Flaked | 0.5 kg (5%) | 80 % | 2 |
| Sugar | Brown Sugar, Dark | 0.2 kg (2%) | 100 % | 99 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 30 g | 60 min | 15.5 % |
| Boil | Magnum | 10 g | 60 min | 13 % |
| Boil | Marynka | 35 g | 30 min | 6 % |

| | | | | |
|---------------------|-------|------|--------|-------|
| Boil | Perle | 25 g | 30 min | 7.3 % |
| Aroma (end of boil) | Perle | 20 g | 10 min | 7.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------------|------|-------|--------|-------------|
| Wyeast - American Ale 1056 | Ale | Slant | 500 ml | Wyeast Labs |

Notes

- Polowa Tonka
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