

#18 RIS

- Gravity **22.2 BLG**
- ABV **10 %**
- IBU **78**
- SRM **35.3**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **0 %**
- Size with trub loss **20 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.2 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **26.8 liter(s)**
- Total mash volume **35.7 liter(s)**

Steps

- Temp **67 C**, Time **0 min**

Mash step by step

- Heat up **26.8 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **0 min** at **67C**
- Sparge using **6.3 liter(s)** of **76C** water or to achieve **24.2 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------------|-----------------|-------|------|
| Grain | Malteurop - pilzneński | 3.7 kg (41.5%) | 80 % | 4 |
| Grain | Malteurop - Pale Ale | 0.81 kg (9.1%) | 80 % | 6 |
| Grain | Słodownia Strzegom - monachijski I | 3.25 kg (36.4%) | 79 % | 12 |
| Grain | Słodownia Strzegom - czekoladowy 400 | 0.15 kg (1.7%) | 70 % | 400 |
| Grain | Weyermann - Caramunich II | 0.07 kg (0.8%) | 75 % | 120 |
| Grain | Weyermann - Caramunich III | 0.09 kg (1%) | 75 % | 150 |
| Grain | Weyermann - Caramunich I | 0.1 kg (1.1%) | 75 % | 90 |
| Grain | Weyermann - Carared | 0.12 kg (1.3%) | 75 % | 45 |
| Grain | Weyermann - Caraamber | 0.03 kg (0.3%) | 75 % | 70 |
| Grain | Słodownia Strzegom - karmelowy 600 | 0.2 kg (2.2%) | 69 % | 600 |
| Grain | Weyermann - jęczmień palony | 0.35 kg (3.9%) | 80 % | 1100 |
| Grain | Weyermann - Carafa I | 0.05 kg (0.6%) | 70 % | 689 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Nugget | 30 g | 60 min | 15.3 % |
| Boil | Marynka | 37 g | 30 min | 9.4 % |
| Boil | Citra | 30 g | 5 min | 13.5 % |
| Boil | Challenger | 23 g | 5 min | 5.8 % |
| Boil | Columbus/Tomahawk/Zeus | 30 g | 10 min | 15 % |

Extras

| Type | Name | Amount | Use for | Time |
|-------|----------------|--------|---------|--------|
| Other | Płatki owsiane | 0 g | Boil | 60 min |