

End Game

- Gravity **24 BLG**
- ABV **11 %**
- IBU **116**
- SRM **61.1**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **4 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **29.9 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **1.75 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **33 liter(s)**

Steps

- Temp **65 C**, Time **40 min**
- Temp **69 C**, Time **50 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **77.9C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **50 min** at **69C**
- Keep mash **30 min** at **72C**
- Sparge using **20.9 liter(s)** of **76C** water or to achieve **29.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------|---------------|--------|------|
| Grain | Pale Ale | 7.8 kg (65%) | 80 % | 7 |
| Grain | Płatki pszeniczne | 1.2 kg (10%) | 85 % | 3 |
| Grain | cookie | 0.3 kg (2.5%) | 80 % | 50 |
| Grain | Carafa III | 0.5 kg (4.2%) | 70 % | 1034 |
| Grain | Special B Malt | 0.6 kg (5%) | 65.2 % | 315 |
| Grain | special w | 0.6 kg (5%) | 65 % | 300 |
| Grain | Briess - Chocolate Malt | 0.6 kg (5%) | 60 % | 690 |
| Grain | Jęczmień palony | 0.4 kg (3.3%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Galena | 150 g | 60 min | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------------------|------|--------|--------|------------|
| WLP007 - Dry English Ale Yeast | Ale | Liquid | 300 ml | White Labs |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------------------------|--------|-----------|----------|
| Flavor | kokos | 50 g | Secondary | 7 day(s) |
| Flavor | tonka | 50 g | Secondary | 7 day(s) |
| Flavor | płatki dębowe amerykańskie (koniak) | 50 g | Secondary | 7 day(s) |

Notes

- <https://www.piwo.org/forums/topic/14390-alderaan-brewery/page/15/?tab=comments#comment-501581>
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