

FPD ris

- Gravity **22 BLG**
- ABV **9.9 %**
- IBU **29**
- SRM **28.3**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **28.7 liter(s)**
- Total mash volume **38.2 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 5 kg (52.4%) | 80 % | 5 |
| Grain | Żytni | 0.5 kg (5.2%) | 85 % | 8 |
| Grain | Owsiany | 1 kg (10.5%) | --- % | --- |
| Grain | Carafa | 0.3 kg (3.1%) | 70 % | 664 |
| Grain | Carafa III | 0.25 kg (2.6%) | 70 % | 1034 |
| Grain | Pilzneński | 2 kg (20.9%) | 81 % | 4 |
| Grain | Briess - Carabrown Malt | 0.5 kg (5.2%) | 79 % | 108 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil | Magnum | 30 g | 60 min | 13.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 200 ml | Fermentis |