

RIS

- Gravity **29.6 BLG**
- ABV **14.5 %**
- IBU **90**
- SRM **69.7**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **19.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **30 liter(s)**
- Total mash volume **40 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|--------------|-------|------|
| Grain | Strzegom Pilzneński | 1.5 kg (15%) | 80 % | 4 |
| Grain | Viking Pale Ale malt | 1 kg (10%) | 80 % | 5 |
| Grain | Strzegom Monachijski typ I | 1 kg (10%) | 79 % | 16 |
| Grain | Słód owsiany Fawcett | 0.5 kg (5%) | 61 % | 5 |
| Grain | Pszeniczny | 0.5 kg (5%) | 85 % | 4 |
| Grain | Grodziski pszeniczny wędzony dębem | 0.5 kg (5%) | 80 % | 3 |
| Grain | Cara-Pils/Dextrine | 0.2 kg (2%) | 72 % | 4 |
| Grain | Golden ale | 0.2 kg (2%) | 70 % | 8 |
| Grain | Caramel pale | 0.4 kg (4%) | 75 % | 20 |
| Grain | Pale cookie | 0.6 kg (6%) | 70 % | 6 |
| Grain | Żytni | 0.6 kg (6%) | 85 % | 8 |
| Grain | Strzegom Karmel 300 | 0.4 kg (4%) | 70 % | 299 |
| Grain | Strzegom Czekoladowy jasny | 0.6 kg (6%) | 68 % | 400 |
| Grain | Strzegom Czekoladowy ciemny | 0.4 kg (4%) | 68 % | 1200 |
| Grain | Jęczmień palony | 0.5 kg (5%) | 55 % | 985 |
| Grain | Strzegom pszenica prażona | 0.1 kg (1%) | 70 % | 1000 |
| Grain | Jęczmień niesłodowany | 0.6 kg (6%) | 75 % | 2 |
| Grain | Płatki owsiane | 0.4 kg (4%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------|---------------|-------------|-------------------|
| Boil | Magnum | 60 g | 60 min | 12.4 % |
| Aroma (end of boil) | Perle | 50 g | 10 min | 7 % |
| Boil | Citra | 30 g | 60 min | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-04 | Ale | Slant | 1000 ml | Safale |