

## #10 RIS

- Gravity **31.6 BLG**
- ABV **16 %**
- IBU **21**
- SRM **88**
- 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 **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **29.3 liter(s)**
- Total mash volume **39 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **77 C**, Time **15 min**

### Mash step by step

- Heat up **29.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **15 min** at **77C**
- Sparge using **3 liter(s)** of **76C** water or to achieve **22.5 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount         | Yield | EBC  |
|-------|-----------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt        | 5 kg (46.5%)   | 80 %  | 5    |
| Grain | Strzegom Bursztynowy        | 1 kg (9.3%)    | 70 %  | 49   |
| Grain | Strzegom Karmel 600         | 1 kg (9.3%)    | 68 %  | 601  |
| Grain | Jęczmień palony             | 0.5 kg (4.7%)  | 55 %  | 985  |
| Grain | Strzegom Karmel 30          | 0.25 kg (2.3%) | 75 %  | 30   |
| Grain | Płatki owsiane              | 1 kg (9.3%)    | 85 %  | 3    |
| Grain | Strzegom Czekoladowy ciemny | 1 kg (9.3%)    | 68 %  | 1200 |
| Sugar | glukoza                     | 1 kg (9.3%)    | --- % | ---  |

### Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Marynka | 30 g   | 60 min | 11.8 %     |

### Yeasts

| Name | Type | Form   | Amount | Laboratory |
|------|------|--------|--------|------------|
| US05 | Ale  | Liquid | 600 ml | ---        |

## Extras

| Type   | Name  | Amount | Use for   | Time      |
|--------|---|--------|-----------|-----------|
| Flavor | kawa (1000ml)   | 100 g  | Boil      | 50 min    |
| Flavor | płatki dębowe<br>mocno palone<br>marynowane w<br>Whisky | 200 g  | Secondary | 90 day(s) |
| Flavor | kawa  | 300 g  | Secondary | 90 day(s) |