

# RIS!

- Gravity **26.8 BLG**
- ABV **12.7 %**
- IBU **60**
- SRM **60.6**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **100 min**
- Evaporation rate **10 %/h**
- Boil size **13.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.3 liter(s)**
- Total mash volume **23 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **17.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **1.9 liter(s)** of **76C** water or to achieve **13.4 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield  | EBC  |
|-------|-----------------------------|----------------|--------|------|
| Grain | BESTMALZ - Bestt Pale Ale   | 3.5 kg (60.9%) | 80.5 % | 6    |
| Grain | Strzegom Monachijski typ II | 1 kg (17.4%)   | 79 %   | 22   |
| Grain | Strzegom Czekoladowy ciemny | 0.25 kg (4.3%) | 68 %   | 1200 |
| Grain | Strzegom Czekoladowy 400    | 0.15 kg (2.6%) | 68 %   | 400  |
| Grain | Jęczmień palony             | 0.25 kg (4.3%) | 55 %   | 985  |
| Grain | Strzegom Karmel 300         | 0.2 kg (3.5%)  | 70 %   | 299  |
| Grain | Castle Cafe                 | 0.2 kg (3.5%)  | 75.5 % | 480  |
| Grain | Płatki owsiane              | 0.2 kg (3.5%)  | 85 %   | 3    |

## Hops

| Use for | Name            | Amount | Time    | Alpha acid |
|---------|-----------------|--------|---------|------------|
| Boil    | Styrian Golding | 100 g  | 100 min | 3.6 %      |
| Boil    | Styrian Golding | 40 g   | 20 min  | 3.6 %      |
| Boil    | Styrian Golding | 40 g   | 1 min   | 3.6 %      |

## Yeasts

| Name                  | Type | Form | Amount | Laboratory |
|-----------------------|------|------|--------|------------|
| Danstar - Windsor Ale | Ale  | Dry  | 11 g   | Danstar    |