

Czyszczenie Magazynu v 1.0

- Gravity **20.7 BLG**
- ABV **9.2 %**
- IBU **48**
- SRM **58.6**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **12.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **13 %/h**
- Boil size **15.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.1 liter(s)**
- Total mash volume **21.4 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **77 C**, Time **10 min**

Mash step by step

- Heat up **16.1 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **77C**
- Sparge using **4.9 liter(s)** of **76C** water or to achieve **15.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|------|
| Grain | Monachijski | 1 kg (18.7%) | 80 % | 16 |
| Grain | Strzegom Wiedeński | 1.5 kg (28%) | 79 % | 10 |
| Grain | Jęczmień niestodowany | 0.8 kg (14.9%) | 75 % | 2 |
| Grain | Caraaroma | 0.7 kg (13.1%) | 78 % | 400 |
| Grain | Caramel/Crystal Malt - 120L | 0.3 kg (5.6%) | 72 % | 160 |
| Grain | Carafa III | 0.16 kg (3%) | 70 % | 1034 |
| Grain | Briess - Pale Ale Malt | 0.5 kg (9.3%) | 80 % | 7 |
| Grain | Jęczmień palony | 0.4 kg (7.5%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | lunga | 15 g | 60 min | 12.5 % |
| Boil | lunga | 15 g | 30 min | 12.5 % |
| Boil | Saaz (Czech Republic) | 20 g | 10 min | 4.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|-------------|-----|-------|--------|--------|
| Safale S-04 | Ale | Slant | 100 ml | Safale |
|-------------|-----|-------|--------|--------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------|--------|---------|--------|
| Flavor | Laktoza | 500 g | Boil | 15 min |
| Spice | skórki pomarańczy | 20 g | Boil | 10 min |