

Imperial Stout

- Gravity **24 BLG**
- ABV **11 %**
- IBU **69**
- SRM **41.4**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **9 liter(s)**
- Trub loss **5 %**
- Size with trub loss **9.9 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **12.4 liter(s)**

Mash information

- Mash efficiency **73 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

Steps

- Temp **66 C**, Time **80 min**
- Temp **76 C**, Time **15 min**

Mash step by step

- Heat up **13.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **80 min** at **66C**
- Keep mash **15 min** at **76C**
- Sparge using **3.4 liter(s)** of **76C** water or to achieve **12.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 2.5 kg (55.6%) | 90 % | --- |
| Grain | Strzegom Karmel 300 | 0.5 kg (11.1%) | 80 % | 299 |
| Grain | Fawcett - Pszeniczny Czekoladowy | 0.2 kg (4.4%) | 73 % | 1001 |
| Grain | Strzegom Czekoladowy jasny | 0.2 kg (4.4%) | 80 % | 400 |
| Grain | Carafa Typ II | 0.2 kg (4.4%) | 80 % | --- |
| Grain | Carafa Typ III | 0.2 kg (4.4%) | 80 % | --- |
| Grain | Monachijski | 0.4 kg (8.9%) | 80 % | 16 |
| Grain | Płatki owsiane | 0.3 kg (6.7%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Polaris | 14 g | 60 min | 19 % |
| Boil | Simcoe | 15 g | 60 min | 13.2 % |

Yeasts

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

| | | | | |
|-------------|-----|-------|--------|-----|
| Safale S-04 | Ale | Slant | 180 ml | --- |
|-------------|-----|-------|--------|-----|

Extras

| Type | Name | Amount | Use for | Time |
|-------|---------|--------|---------|--------|
| Spice | Cynamon | 2 g | Boil | 10 min |