

# Imperial stout i dry z wyslodek

- Gravity **24.6 BLG**
- ABV **11.4 %**
- IBU **84**
- SRM **67.1**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **33.5 liter(s)**
- Total mash volume **44.6 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **33.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **4.1 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

| Type  | Name   | Amount         | Yield | EBC  |
|-------|--|----------------|-------|------|
| Grain | Weyermann - Pale Ale Malt                    | 7 kg (62.8%)   | 80 %  | 7    |
| Grain | Monachijski typ II<br>20-25 EBC<br>Weyermann | 1 kg (9%)      | 80 %  | 20   |
| Grain | Płatki owsiane                               | 1 kg (9%)      | 85 %  | 3    |
| Grain | Płatki Jeczmienne                            | 0.5 kg (4.5%)  | 85 %  | ---  |
| Grain | Pszeniczny czekoladowy<br>Weyermann          | 0.5 kg (4.5%)  | 73 %  | 1000 |
| Grain | Weyermann - Carafa III                       | 0.5 kg (4.5%)  | 70 %  | 1300 |
| Grain | Jęczmień palony                              | 0.3 kg (2.7%)  | 55 %  | 1100 |
| Grain | Weyermann - Carafa I                         | 0.25 kg (2.2%) | 70 %  | 900  |
| Grain | Barwiący                                     | 0.1 kg (0.9%)  | 55 %  | 985  |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Warrior | 80 g   | 60 min | 15.5 %     |

## Yeasts

| Name  | Type | Form | Amount  | Laboratory |
|-------|------|------|---------|------------|
| us-05 | Ale  | Dry  | 28.75 g | safale     |