

## Foreign Extra Stout

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- Gravity **16.1 BLG**
- ABV ---
- IBU **32**
- SRM **40**
- Style **Foreign Extra Stout**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **30.4 liter(s)**

### Steps

- Temp **68 C**, Time **45 min**
- Temp **75 C**, Time **15 min**

### Mash step by step

- Heat up **22.8 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **45 min** at **68C**
- Keep mash **15 min** at **75C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount        | Yield | EBC |
|-------|-----------------------------|---------------|-------|-----|
| Grain | Strzegom Pale Ale           | 4 kg (52.6%)  | 79 %  | 6   |
| Grain | Strzegom Czekoladowy jasny  | 0.5 kg (6.6%) | 68 %  | 400 |
| Grain | Carafa                      | 0.3 kg (3.9%) | 70 %  | 664 |
| Grain | Carafa II                   | 0.3 kg (3.9%) | 70 %  | 812 |
| Grain | Weyermann - Pilsner Malt    | 0.5 kg (6.6%) | 81 %  | 5   |
| Grain | Oats, Flaked                | 0.5 kg (6.6%) | 80 %  | 2   |
| Grain | Weyermann - Pale Wheat Malt | 0.5 kg (6.6%) | 85 %  | 5   |
| Grain | Strzegom Monachijski typ I  | 1 kg (13.2%)  | 79 %  | 16  |

### Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | Perle | 20 g   | 20 min | 7.6 %      |
| Boil    | Perle | 20 g   | 40 min | 7.6 %      |
| Boil    | Perle | 20 g   | 60 min | 7.6 %      |

### Yeasts

| <b>Name</b> | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|-------------|-------------|-------------|---------------|-------------------|
| Safale S-04 | Ale         | Dry         | 23 g          | Safale            |