

## #68 Foreign Extra Stout

- Gravity **16.8 BLG**
- ABV **7.1 %**
- IBU **47**
- SRM **41.1**
- Style **Foreign Extra Stout**

### Batch size

- Expected quantity of finished beer **7.9 liter(s)**
- Trub loss **4 %**
- Size with trub loss **8.2 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **10.1 liter(s)**

### Mash information

- Mash efficiency **74 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **8.9 liter(s)**
- Total mash volume **11.7 liter(s)**

### Steps

- Temp **65 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **1 min**

### Mash step by step

- Heat up **8.9 liter(s)** of strike water to **72C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **77C**
- Sparge using **4 liter(s)** of **76C** water or to achieve **10.1 liter(s)** of wort

### Fermentables

| Type  | Name                             | Amount          | Yield | EBC  |
|-------|----------------------------------|-----------------|-------|------|
| Grain | Strzegom Pilzneński              | 1.54 kg (55.5%) | 80 %  | 4    |
| Grain | Jęczmień niesłodowany            | 0.4 kg (14.4%)  | 75 %  | 2    |
| Grain | Abbey Malt Weyermann             | 0.2 kg (7.2%)   | 75 %  | 45   |
| Grain | Caramunich® typ I                | 0.2 kg (7.2%)   | 73 %  | 80   |
| Grain | Płatki owsiane                   | 0.15 kg (5.4%)  | 85 %  | 3    |
| Grain | Weyermann - Carafa II Special    | 0.15 kg (5.4%)  | 65 %  | 1150 |
| Grain | Fawcett - Pszeniczny Czekoladowy | 0.075 kg (2.7%) | 73 %  | 1001 |
| Grain | Strzegom Barwiący                | 0.06 kg (2.2%)  | 68 %  | 1300 |

### Hops

| Use for | Name  | Amount | Time   | Alpha acid |
|---------|-------|--------|--------|------------|
| Boil    | lunga | 21 g   | 60 min | 9.5 %      |

### Yeasts

| <b>Name</b>  | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale         | Slant       | 100 ml        | ---               |