

PEATED WHISKY EXTRA STOUT

- Gravity **18.9 BLG**
- ABV **8.2 %**
- IBU **57**
- SRM **41.1**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **17 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **19.6 liter(s)**

Mash information

- Mash efficiency **82 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **23.4 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **25 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **25 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **8 liter(s)** of **76C** water or to achieve **19.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|----------------|-------|------|
| Grain | Weyermann - Pilsner Malt | 1 kg (17.1%) | 81 % | 5 |
| Grain | Casle Malting Whisky Nature | 1 kg (17.1%) | 85 % | 4 |
| Grain | Peat Smoked Malt | 1 kg (17.1%) | 74 % | 6 |
| Grain | Weyermann pszeniczny jasny | 1 kg (17.1%) | 80 % | 6 |
| Grain | Fawcett - Brown | 0.5 kg (8.5%) | 72 % | 190 |
| Grain | Płatki owsiane | 0.4 kg (6.8%) | 85 % | 3 |
| Grain | Caraaroma | 0.25 kg (4.3%) | 78 % | 400 |
| Grain | Słód Caramunich Typ II Weyermann | 0.25 kg (4.3%) | 73 % | 120 |
| Grain | Jęczmień palony | 0.25 kg (4.3%) | 55 % | 985 |
| Grain | Weyermann - Carafa III | 0.1 kg (1.7%) | 70 % | 1400 |
| Grain | Weyermann - Carafa II | 0.1 kg (1.7%) | 70 % | 1100 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | lunga | 40 g | 55 min | 11 % |
| Boil | Fuggles | 50 g | 15 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 130 ml | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-------------------------------------|--------|-----------|-----------|
| Flavor | płatki dębowe z beczki po bourbonie | 20 g | Secondary | 10 day(s) |