

## #119 Smoked Stout

- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **33**
- SRM **32.5**
- Style **Dry Stout**

### Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **4 %**
- Size with trub loss **12.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **14 %/h**
- Boil size **15.5 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **6.03 liter(s) / kg**
- Mash size **16.7 liter(s)**
- Total mash volume **19.5 liter(s)**

### Steps

- Temp **65 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **16.7 liter(s)** of strike water to **68.7C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **1.6 liter(s)** of **76C** water or to achieve **15.5 liter(s)** of wort

### Fermentables

| Type  | Name                          | Amount          | Yield | EBC  |
|-------|-------------------------------|-----------------|-------|------|
| Grain | Słód Wędzony Steinbach        | 1.2 kg (43.3%)  | 80 %  | 5    |
| Grain | Viking Pale Ale malt          | 0.55 kg (19.9%) | 80 %  | 6    |
| Grain | Płatki owsiane                | 0.3 kg (10.8%)  | 68 %  | 3    |
| Grain | Jęczmień palony               | 0.25 kg (9%)    | 60 %  | 1100 |
| Grain | Weyermann - Acidulated Malt   | 0.2 kg (7.2%)   | 80 %  | 6    |
| Grain | Abbey Malt Weyermann          | 0.2 kg (7.2%)   | 75 %  | 45   |
| Grain | Weyermann - Carafa II Special | 0.07 kg (2.5%)  | 65 %  | 1150 |

### Hops

| Use for             | Name       | Amount | Time   | Alpha acid |
|---------------------|------------|--------|--------|------------|
| Boil                | Chinook PL | 10 g   | 55 min | 9.1 %      |
| Aroma (end of boil) | Chinook PL | 13 g   | 20 min | 9.1 %      |

### Yeasts

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

|                      |     |     |      |         |
|----------------------|-----|-----|------|---------|
| Danstar - Nottingham | Ale | Dry | 80 g | Danstar |
|----------------------|-----|-----|------|---------|