

#48 Plummy Smoked Porter

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **62**
- SRM **28.8**
- Style **Brown Porter**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **15.3 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **12.6 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|---------------|-------|------|
| Grain | Pilzneński | 4 kg (78.4%) | 81 % | 4 |
| Grain | Caramel/Crystal Malt - 120L | 0.3 kg (5.9%) | 72 % | 236 |
| Grain | Strzegom Czekoladowy jasny | 0.1 kg (2%) | 68 % | 400 |
| Grain | Strzegom Czekoladowy ciemny | 0.3 kg (5.9%) | 68 % | 1200 |
| Grain | Płatki owsiane | 0.4 kg (7.8%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil | Marynka | 30 g | 60 min | 7.4 % |
| Boil | Marynka | 20 g | 30 min | 7.4 % |
| Boil | Puławski | 30 g | 30 min | 7.2 % |
| Boil | Puławski | 20 g | 10 min | 7.2 % |

Yeasts

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

| | | | | |
|----------------------|-----|-----|------|---------|
| Danstar - Nottingham | Ale | Dry | 22 g | Danstar |
|----------------------|-----|-----|------|---------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------------------|--------|-----------|----------|
| Flavor | Suska macerowana w whisky | 250 g | Secondary | 5 day(s) |