

American Porter

- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **49**
- SRM **37.8**
- Style **Robust Porter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.9 liter(s)**
- Total mash volume **22.6 liter(s)**

Steps

- Temp **68 C**, Time **45 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **16.9 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **45 min** at **68C**
- Keep mash **10 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **14.1 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|----------------|-------|------|
| Grain | Viking Pale Ale malt | 2.3 kg (40.7%) | 80 % | 6 |
| Grain | Brown Malt (British Chocolate) | 0.4 kg (7.1%) | 70 % | 175 |
| Grain | Caramel/Crystal Malt - 120L | 0.1 kg (1.8%) | 72 % | 236 |
| Grain | Strzegom Czekoladowy 1200 | 0.3 kg (5.3%) | 68 % | 1202 |
| Grain | Carafa III | 0.1 kg (1.8%) | 70 % | 1300 |
| Grain | Pszeniczny | 0.3 kg (5.3%) | 85 % | 4 |
| Grain | Strzegom Karmel 300 | 0.15 kg (2.7%) | 70 % | 299 |
| Grain | Płatki owsiane | 0.6 kg (10.6%) | 85 % | 3 |
| Grain | Strzegom Barwiący | 0.1 kg (1.8%) | 68 % | 1600 |
| Grain | Strzegom Pilzneński | 1.3 kg (23%) | 80 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil | Equinox | 15 g | 60 min | 14.6 % |
| Boil | Amarillo | 15 g | 30 min | 9.5 % |

| | | | | |
|------|----------|------|--------|--------|
| Boil | Equinox | 20 g | 10 min | 14.6 % |
| Boil | Amarillo | 20 g | 10 min | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|-------|--------|------------------|
| FM52 Amerykański Sen | Ale | Slant | 150 ml | Fermentum Mobile |