

American Porter

- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **47**
- SRM **29.3**
- Style **Robust Porter**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **15 %**
- Size with trub loss **13.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **17.3 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14.7 liter(s)**
- Total mash volume **18.9 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **14.7 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **75C**
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **17.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.5 kg (83.3%)	85 %	7
Grain	Caraaroma	0.5 kg (11.9%)	78 %	400
Grain	Weyermann - Carafa I	0.2 kg (4.8%)	70 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	30 min	13 %
Aroma (end of boil)	Chinook	30 g	0 min	13 %
Whirlpool	Amarillo	15 g	5 min	9.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	12 g	Fermentis