English Brown Porter

- Gravity 12.1 BLG
- ABV ----
- IBU 35
- SRM **29.5**
- Style Brown 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 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

Steps

- Temp 67 C, Time 90 min
 Temp 67 C, Time 10 min
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 13.5 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 10 min at 67C
- Keep mash 90 min at 67C
- Keep mash 5 min at 78C
- Sparge using 16.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Castle Pale Ale	3.5 kg <i>(77.8%)</i>	80 %	8
Grain	Brown Malt (British Chocolate)	0.5 kg (11.1%)	70 %	128
Grain	Red Crystal	0.4 kg (8.9%)	75 %	400
Grain	Briess - Chocolate Malt	0.1 kg <i>(2.2%)</i>	60 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	55 g	60 min	4.5 %
Aroma (end of boil)	Fuggles	20 g	10 min	4.5 %