Brown Porter

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **21**
- SRM **25.2**
- Style Brown Porter

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 22.8 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 4.5 liter(s) / kg
- Mash size 22.9 liter(s)
- Total mash volume 28 liter(s)

Steps

- Temp 69 C, Time 70 min
 Temp 76 C, Time 5 min

Mash step by step

- Heat up 22.9 liter(s) of strike water to 74.5C
- Add grains
- Keep mash 70 min at 69C
- Keep mash 5 min at 76C Sparge using 5 liter(s) of 76C water or to achieve 22.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3.7 kg <i>(72.5%)</i>	79 %	6
Grain	Brown Malt (British Chocolate)	0.5 kg <i>(9.8%)</i>	70 %	175
Grain	Red Crystal 400 EBC	0.5 kg <i>(9.8%)</i>	71.3 %	400
Grain	Słód owsiany Fawcett	0.3 kg <i>(5.9%)</i>	61 %	5
Grain	pszeniczny czekoladowy	0.1 kg <i>(2%)</i>	72.7 %	887

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	60 min	5 %
Boil	Fuggles	20 g	5 min	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M42 New World Strong Ale	Ale	Dry	11 g	Mangrove Jack's

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirfloc	6 g	Boil	15 min
Other	gips piwowarski	6 g	Mash	70 min