Chocolate Brown Porter

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **22**
- SRM **25**
- Style Brown Porter

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 45 min
- Evaporation rate 10 %/h
- Boil size 14.8 liter(s)

Mash information

- Mash efficiency 60 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 13.1 liter(s)
- Total mash volume 16.9 liter(s)

Steps

- Temp 65 C, Time 35 min
 Temp 72 C, Time 35 min

Mash step by step

- Heat up 13.1 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 35 min at 65C
- Keep mash 35 min at 72C
- Sparge using 5.5 liter(s) of 76C water or to achieve 14.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale (W)	3 kg (80%)	85 %	7
Grain	Brown (Fawcett)	0.3 kg <i>(8%)</i>	72 %	180
Grain	Dark Crystal (Fawcett)	0.25 kg <i>(6.7%)</i>	72 %	210
Grain	Special B (Castle)	0.1 kg <i>(2.7%)</i>	70 %	350
Grain	Chocolate Wheat (W)	0.1 kg <i>(2.7%)</i>	74 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	challanger 2020	25 g	20 min	6.1 %
Boil	challanger 2020	25 g	5 min	6.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Liquid	1000 ml	Wyeast Labs

Extras

Type	Name	Amount	Use for	Time
Type		7	000 10.	

Water Agent	gips	1 g	Mash	60 min
Water Agent	chlorek wapnia	1 g	Mash	60 min
Water Agent	kreda	3.5 g	Mash	60 min
Water Agent	sól kuchenna	1 g	Mash	60 min
Fining	whirflock	1 g	Boil	5 min
Flavor	śruta kakowa	500 g	Secondary	5 day(s)