Porter Weizen

- Gravity 12.3 BLG
- ABV ----
- IBU **22**
- SRM **30.3**
- Style Brown Porter

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 10 %
- Size with trub loss 24.2 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 14.7 liter(s)
- Total mash volume 19.6 liter(s)

Steps

- Temp **45 C**, Time **20 min** Temp **66 C**, Time **30 min** Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up 14.7 liter(s) of strike water to 49.2C
- Add grains
- Keep mash 20 min at 45C
- Keep mash 30 min at 66C
- Keep mash 45 min at 72C
- Keep mash 2 min at 78C
- Sparge using 18 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	1.5 kg <i>(30.6%)</i>	85 %	8
Grain	Weyermann pszeniczny jasny	1.5 kg <i>(30.6%)</i>	80 %	7
Grain	Monachijski	1 kg (20.4%)	80 %	20
Grain	Brown Malt (British Chocolate)	0.5 kg <i>(10.2%)</i>	70 %	172
Grain	Special W Malt	0.2 kg <i>(4.1%)</i>	65.2 %	280
Grain	Pszeniczny czekoladowy	0.2 kg (4.1%)	60 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	60 min	4.5 %
Boil	Fuggles	20 g	30 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
	- 7 -		7	

FM41 Gwoździe i	Wheat	Liquid	100 ml	
Banany				