smoked stout

- Gravity 18.2 BLG
- ABV ----
- IBU **33**
- SRM 40
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 17 liter(s)
- Trub loss 10 %
- Size with trub loss 18.7 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 21.5 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 54 C, Time 20 min
 Temp 65 C, Time 45 min
- Temp 72 C, Time 20 min

Mash step by step

- Heat up 15 liter(s) of strike water to 59.7C
- Add grains
- Keep mash 20 min at 54C
- Keep mash 45 min at 65C
- Keep mash 20 min at 72C
- Sparge using 11.5 liter(s) of 76C water or to achieve 21.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	steinbach smoked malt	3 kg (60%)	%	5
Grain	pilzeński	1.5 kg <i>(30%)</i>	80.5 %	2
Grain	czekoladowy	0.5 kg (10%)	60 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	60 min	10 %
Boil	Marynka	10 g	45 min	10 %
Boil	Marynka	10 g	30 min	10 %
Boil	Fuggles	10 g	15 min	4.5 %
Aroma (end of boil)	Fuggles	10 g	5 min	4.5 %
Dry Hop	Fuggles	10 g	3 day(s)	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
saf	Ale	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
Flavor	wióry dębowe	200 g	Primary	3 day(s)