Smoked Rye Imperial Stout

- Gravity 26.8 BLG
- ABV **12.7** %
- IBU **55**
- SRM **51.2**
- Style Russian Imperial Stout

Batch size

- Expected quantity of finished beer 17 liter(s)
- Trub loss 0 %
- Size with trub loss 17 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 21.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2.6 liter(s) / kg
- Mash size 24.2 liter(s)
- Total mash volume 33.5 liter(s)

Steps

- Temp **55 C**, Time **10 min** Temp **64 C**, Time **60 min** Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 24.2 liter(s) of strike water to 61.7C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 60 min at 64C
- Keep mash 30 min at 72C
- Keep mash 1 min at 78C
- Sparge using 6.6 liter(s) of 76C water or to achieve 21.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale Best	4 kg <i>(43%)</i>	80 %	6
Grain	Rauch Malz Best	2 kg <i>(21.5%)</i>	77 %	6
Grain	Roggenmalz	1 kg <i>(10.8%)</i>	84 %	7
Grain	Caramunich II Best	0.6 kg <i>(6.5%)</i>	73 %	120
Grain	Special X Best	0.5 kg <i>(5.4%)</i>	75 %	350
Grain	Oats, Flaked	0.5 kg <i>(5.4%)</i>	80 %	2
Grain	Chocolate Best	0.2 kg <i>(2.2%)</i>	75 %	900
Grain	Carafa II Best	0.5 kg <i>(5.4%)</i>	65 %	1100

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northern Brewer	60 g	45 min	9.2 %
Boil	East Kent Goldings	20 g	45 min	5 %
Boil	Northern Brewer	20 g	15 min	9.2 %
Boil	Fuggles	20 g	15 min	2.4 %
Aroma (end of boil)	Fuggles	20 g	5 min	2.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 1056 American Ale	Ale	Liquid	400 ml	Wyeast Labs