Rye Stout

- Gravity 17.3 BLG
- ABV 7.4 %
- IBU **52**
- SRM **37.7**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.4 liter(s) / kg
- Mash size 23.8 liter(s)
- Total mash volume 30.8 liter(s)

Steps

- Temp 40 C, Time 20 min
 Temp 62 C, Time 120 min
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 23.8 liter(s) of strike water to 42.9C
- Add grains
- Keep mash 20 min at 40C
- Keep mash 120 min at 62C
- Keep mash 5 min at 76C
- Sparge using 8.5 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	1.3 kg <i>(18.6%)</i>	81 %	4
Grain	Strzegom Monachijski typ I	3 kg <i>(42.9%)</i>	79 %	16
Grain	Pszeniczny	0.5 kg <i>(7.1%)</i>	85 %	4
Grain	Żytni	1 kg <i>(14.3%)</i>	85 %	8
Grain	Caraaroma	0.5 kg <i>(7.1%)</i>	78 %	400
Grain	Carafa	0.35 kg <i>(5%)</i>	70 %	664
Grain	Chocolate Malt (UK)	0.35 kg <i>(5%)</i>	73 %	887

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	60 min	12.9 %
Boil	Green Bullet	20 g	60 min	12.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
05	Ale	Slant	300 ml	

Extras

Туре	Name	Amount	Use for	Time
Spice	Tonka Beans	15 g	Secondary	7 day(s)
Spice	Cynamon	5 g	Secondary	7 day(s)
Flavor	Płatki dębowe whisky	25 g	Secondary	7 day(s)