Chocolate Stout

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 38
- SRM 40.3
- Style American 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 liter(s) / kg Mash size 15.3 liter(s)
- Total mash volume 20.4 liter(s)

Steps

- Temp 68 C, Time 70 min
 Temp 75 C, Time 10 min
- Temp 60 C, Time 100 min

Mash step by step

- Heat up 15.3 liter(s) of strike water to 66.7C
- Add grains
- Keep mash 100 min at 60C
- Keep mash 70 min at 68C
- Keep mash 10 min at 75C
- Sparge using 15.1 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Płatki owsiane	0.5 kg (9.8%)	60 %	3
Grain	Viking Pale Ale malt	3.5 kg <i>(68.6%)</i>	80 %	5
Grain	Smooth Chocolate	0.5 kg (9.8%)	73 %	494
Grain	Chocolate	0.3 kg <i>(5.9%)</i>	%	1100
Grain	Black (Patent) Malt	0.3 kg <i>(5.9%)</i>	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	60 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Fermentis