mk stout

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **28**
- SRM **36.4**

Batch size

- Expected quantity of finished beer 3.4 liter(s)
- Trub loss 5 %
- Size with trub loss 3.6 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 4.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 3.4 liter(s)
- Total mash volume 4.2 liter(s)

Steps

- Temp 63 C, Time 40 min
 Temp 66 C, Time 20 min

Mash step by step

- Heat up 3.4 liter(s) of strike water to 68.3C
- Add grains
- Keep mash 40 min at 63C
- · Keep mash 20 min at 66C
- Sparge using 1.7 liter(s) of 76C water or to achieve 4.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) Bel	0.7 kg <i>(83.3%)</i>	80 %	6
Grain	Chocolate Malt (US)	0.04 kg <i>(4.8%)</i>	60 %	690
Grain	Jęczmień palony	0.1 kg (11.9%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	4 g	60 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	3 g	Safale