Tosta Stout

- Gravity 14 BLG
- ABV 5.8 %
- IBU **32**
- SRM **35.5**
- 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 65 min
- · Evaporation rate 9 %/h
- Boil size 25 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.2 liter(s) / kg
- Mash size 18.1 liter(s)
- Total mash volume 23.7 liter(s)

Steps

- Temp 50 C, Time 20 min
 Temp 61 C, Time 60 min
 Temp 70 C, Time 15 min
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up 18.1 liter(s) of strike water to 54.7C
- Add grains
- Keep mash 20 min at 50C
- Keep mash 60 min at 61C
- Keep mash 15 min at 70C
- Keep mash 15 min at 78C
- Sparge using 12.6 liter(s) of 76C water or to achieve 25 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4 kg (70.8%)	85 %	7
Grain	Barley, Flaked	1 kg <i>(17.7%)</i>	70 %	4
Grain	Palone ziarna jęczmienia Weyermann®	0.5 kg <i>(8.8%)</i>	55 %	1150
Grain	Weyermann - Carafa II	0.15 kg <i>(2.7%)</i>	70 %	837

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	20 g	60 min	5.5 %
Boil	Cascade	20 g	45 min	5.5 %
Boil	Fuggles	15 g	30 min	5 %
Aroma (end of boil)	Fuggles	15 g	15 min	5 %
Whirlpool	Cascade	10 g	0 min	5.5 %

Yeasts

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