

Sweet stout 14blg

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **20**
- SRM **41.8**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **19 liter(s)**
- Total mash volume **24.7 liter(s)**

Steps

- Temp **67 C**, Time **70 min**
- Temp **67 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **19 liter(s)** of strike water to **74.1C**
- Add grains
- Keep mash **10 min** at **67C**
- Keep mash **70 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale Flagon	4.7 kg (81.7%)	80 %	5
Grain	Strzegom Czekoladowy ciemny	0.5 kg (8.7%)	68 %	1200
Grain	Chocolate Malt (US)	0.35 kg (6.1%)	60 %	690
Grain	Jęczmień palony	0.2 kg (3.5%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northdown	25 g	60 min	8.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	---

Extras

Type	Name	Amount	Use for	Time
Spice	Laktoza	500 g	Boil	15 min