

Kofi Stout X2020

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **23**
- SRM **26.6**
- 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 **5 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4.05 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **28.8 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **23.1 liter(s)** of strike water to **73.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **76C**
- Sparge using **6.7 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	3.5 kg (61.4%)	81 %	5
Grain	Platki owsiane	0.7 kg (12.3%)	85 %	3
Grain	Monachijski jasny	0.5 kg (8.8%)	80 %	16
Grain	Karmelowy żytni Strzegom	0.3 kg (5.3%)	75 %	150
Grain	weyermann special W	0.5 kg (8.8%)	73 %	300
Grain	Carafa III	0.2 kg (3.5%)	70 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	30 g	15 min	15.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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Flavor	kawa ziarnista	500 g	Boil	5 min
Flavor	laktoza	500 g	Boil	5 min