

Foreign Extra Stout

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **23**
- SRM **24.6**
- Style **Dry 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 **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.9 liter(s)**
- Total mash volume **24.3 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **18.9 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **30 min** at **72C**
- Sparge using **11.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4.4 kg (81.5%)	85 %	7
Grain	Caraaroma	0.3 kg (5.6%)	78 %	400
Grain	Carafa II	0.1 kg (1.9%)	70 %	812
Grain	Płatki owsiane	0.4 kg (7.4%)	60 %	3
Grain	Jęczmień palony	0.2 kg (3.7%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	25 g	50 min	6.8 %
Boil	Lublin (Lubelski)	50 g	10 min	3.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	200 ml	Fermentis