

## Foreign Extra Stout

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- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **29**
- SRM **39.9**
- Style **Foreign Extra Stout**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **65 min**
- Evaporation rate **20 %/h**
- Boil size **14.6 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **13 liter(s)**

### Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

### Mash step by step

- Heat up **9.8 liter(s)** of strike water to **73.6C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **8.1 liter(s)** of **76C** water or to achieve **14.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg (76.9%)	80 %	5
Grain	Jęczmień palony	0.25 kg (7.7%)	55 %	985
Grain	Brown Malt (British Chocolate)	0.25 kg (7.7%)	70 %	128
Grain	Carafa	0.25 kg (7.7%)	70 %	664

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	25 g	55 min	4.5 %
Boil	Fuggles	25 g	10 min	4.5 %

### Yeasts

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