

# English Bitter 11,5 (by esencjesmaku)

---

- Gravity **12.1 BLG**
- ABV ---
- IBU **40**
- SRM **18.3**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **1 min** at **78C**
- Sparge using **16.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.6 kg (92%)	80 %	5
Grain	Strzegom Karmel 600	0.4 kg (8%)	68 %	601

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	50 min	11 %
Boil	Lublin (Lubelski)	15 g	15 min	4 %
Dry Hop	Lublin (Lubelski)	15 g	3 day(s)	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	800 ml	Safale