

# Imperial Brown Ale

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- Gravity **16.6 BLG**
- ABV **7 %**
- IBU **50**
- SRM **26.6**
- Style **Northern English Brown Ale**

## Batch size

- Expected quantity of finished beer **9 liter(s)**
- Trub loss **5 %**
- Size with trub loss **9.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **11.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **9 liter(s)**
- Total mash volume **12 liter(s)**

## Steps

- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **9 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **5.3 liter(s)** of **76C** water or to achieve **11.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (66.7%)	80 %	5
Grain	crystal Rye fawcett	0.5 kg (16.7%)	80 %	200
Grain	specjal B Castle Malting	0.3 kg (10%)	--- %	350
Grain	Płatki owsiane	0.2 kg (6.7%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	marynka	20 g	60 min	8 %
Boil	Sybilla	20 g	40 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	5 g	---