

# Imperial Brown Ale - I część

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- Gravity **18.9 BLG**
- ABV **8.2 %**
- IBU **37**
- SRM **25.9**
- Style **American Brown Ale**

## Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **13 %/h**
- Boil size **17.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **4.2 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **28.6 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **23.1 liter(s)** of strike water to **71.5C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **5 min** at **78C**
- Sparge using **-0.3 liter(s)** of **76C** water or to achieve **17.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	3.58 kg (65.1%)	81 %	6
Grain	Biscuit Malt	0.88 kg (16%)	79 %	45
Grain	Fawcett - Brown	0.65 kg (11.8%)	72 %	175
Grain	Simpsons - DRC	0.26 kg (4.7%)	82.5 %	280
Grain	Simpsons - Crystal Extra Dark	0.13 kg (2.4%)	74 %	450

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Topaz	16.25 g	60 min	17.6 %