

# SPECJAL Bitter v2

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- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **30**
- SRM **4.8**
- Style **Special/Best/Premium Bitter**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **3 %**
- Size with trub loss **27 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **31.6 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **32 liter(s)**
- Total mash volume **40 liter(s)**

## Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **32 liter(s)** of strike water to **69.5C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **7.6 liter(s)** of **76C** water or to achieve **31.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Golden Promise	5 kg (62.5%)	81 %	4
Grain	Simpsons - Golden Naked Oats	0.5 kg (6.3%)	73 %	20
Grain	Strzegom Pilzneński	2 kg (25%)	80 %	4
Grain	Weyermann - Carapils	0.5 kg (6.3%)	78 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	13.5 %
Aroma (end of boil)	Challenger	50 g	10 min	7 %
Aroma (end of boil)	Challenger	50 g	0 min	7 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Lallemand - Lalbrew London English-style	Ale	Culture	1200 g	Lallemand

## Extras

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

Type	Name	Amount	Use for	Time
Water Agent	CaSO <sub>4</sub> Siarczan wapnia	5 g	Mash	60 min
Water Agent	CaCl <sub>2</sub>	3 g	Mash	60 min