

# Bitter Angielski

---

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **35**
- SRM **7.2**
- 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 **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.1 liter(s)**
- Total mash volume **20.7 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	4 kg (87%)	81 %	6
Grain	simpsons - crystal Light	0.3 kg (6.5%)	75 %	95
Grain	Amber Malt	0.3 kg (6.5%)	75 %	43

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	30 g	60 min	7 %
Boil	Challenger	20 g	20 min	7 %
Boil	Fuggles	20 g	10 min	4.5 %
Aroma (end of boil)	Fuggles	30 g	0 min	4.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar