

# Full Aroma Hops

- Gravity **12.2 BLG**
- ABV ---
- IBU **43**
- SRM **7**
- Style **Special/Best/Premium Bitter**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **67 C**, Time **90 min**

## Mash step by step

- Heat up **13.5 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Sparge using **17.4 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3.5 kg (77.8%)	79 %	6
Grain	Strzegom pszeniczny	0.5 kg (11.1%)	81 %	6
Grain	Strzegom Karmel 30	0.5 kg (11.1%)	75 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	90 min	9.5 %
Aroma (end of boil)	Lublin (Lubelski)	40 g	45 min	4 %
Whirlpool	Lublin (Lubelski)	40 g	30 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	15 min