

# IPA - zastępczy środek do czyszczenia silnika diesla

- Gravity **18.4 BLG**
- ABV ---
- IBU **120**
- SRM **8.1**
- Style **Imperial IPA**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **29.5 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.8 liter(s) / kg**
- Mash size **22.4 liter(s)**
- Total mash volume **30.4 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**

## Mash step by step

- Heat up **22.4 liter(s)** of strike water to **76.6C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **15.1 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (35.7%)	80 %	5
Grain	Pszeniczny	4 kg (47.6%)	85 %	4
Grain	Carahell	1 kg (11.9%)	77 %	26
Adjunct	Briess - Oat Flakes	0.4 kg (4.8%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	100 g	60 min	13.5 %
Boil	Galaxy	30 g	15 min	14.5 %
Whirlpool	Galaxy	20 g	20 min	14.5 %
Dry Hop	Galaxy	50 g	7 day(s)	14.5 %
Whirlpool	Citra	0 g	15 min	13.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	20 g	afsda

## Extras

Type	Name	Amount	Use for	Time
Water Agent	gips	10 g	Mash	60 min