

# Żytnie 2022

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **52**
- SRM **4.7**
- Style **Rye IPA**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **20.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.1 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

## Steps

- Temp **68 C**, Time **45 min**

## Mash step by step

- Heat up **17.5 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **45 min** at **68C**
- Sparge using **12.6 liter(s)** of **76C** water or to achieve **25.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (60%)	80 %	5
Grain	Żytni	2 kg (40%)	85 %	8

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	40 g	60 min	11 %
Aroma (end of boil)	Chinook	20 g	5 min	13 %
Dry Hop	Chinook	80 g	3 day(s)	13 %

## Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Slant	150 ml	fermentis