

# Owsiana kałamarnica (zestaw Piwoszarnia)

- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **42**
- SRM **22.2**
- Style **Oatmeal Stout**

## 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.3 liter(s)**
- Total mash volume **24.4 liter(s)**

## Steps

- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **18.3 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **13.1 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód Pilznieński Strzegom	4 kg (65.6%)	--- %	4
Grain	Słód Monachijski typ II Strzegom	1.5 kg (24.6%)	--- %	20
Grain	Słód karmelowy 600 Strzegom	0.2 kg (3.3%)	--- %	600
Grain	Jęczmień prażony Strzegom	0.2 kg (3.3%)	--- %	1000
Grain	Płatki owsiane	0.2 kg (3.3%)	--- %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	8.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Fermentis