

# Orkiszowe

- Gravity **12.9 BLG**
- ABV ---
- IBU **22**
- SRM **6.1**
- Style **Specialty Beer**

## Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **19.7 liter(s)**

## Mash information

- Mash efficiency **55 %**
- Liquor-to-grist ratio **3.1 liter(s) / kg**
- Mash size **14.9 liter(s)**
- Total mash volume **19.7 liter(s)**

## Steps

- Temp **50 C**, Time **10 min**
- Temp **67 C**, Time **50 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **14.9 liter(s)** of strike water to **54.8C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **50 min** at **67C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **9.6 liter(s)** of **76C** water or to achieve **19.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód orkiszowy	4.8 kg (100%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	6 g	60 min	15.5 %
Boil	Simcoe	10 g	5 min	13.2 %
Boil	Centennial	10 g	5 min	10.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	11.5 g	Fermentis

## Extras

Type	Name	Amount	Use for	Time
Water Agent	chlerek wapnia	1 g	Mash	---
Water Agent	siarczan magnezu	0.5 g	Mash	---