

# Pszeniczne duże

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **10**
- SRM **4.1**

## Batch size

- Expected quantity of finished beer **28 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **35.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **30 liter(s)**

## Steps

- Temp **45 C**, Time **15 min**
- Temp **63 C**, Time **45 min**
- Temp **70 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **22.5 liter(s)** of strike water to **49.2C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **45 min** at **63C**
- Keep mash **15 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **20.4 liter(s)** of **76C** water or to achieve **35.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	słód pszeniczny viking malt	3 kg (40%)	80 %	5
Grain	Słód Castle Malting - Château Wheat Blanc - Pszeniczny	1 kg (13.3%)	80 %	5.5
Grain	Strzegom Pilzneński	3 kg (40%)	80 %	4
Grain	Płatki owsiane	0.5 kg (6.7%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Oktawia	20 g	45 min	7.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	200 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Spice	laska wanili	5 g	Bottling	---
Spice	skórka z cytryny	20 g	Bottling	---