

# Moje1Piwko

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- Gravity **13.1 BLG**
- ABV ---
- IBU **20**
- SRM **1.2**
- Style **Kölsch**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

## Steps

- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **75.5 C**, Time **5 min**

## Mash step by step

- Heat up **13.2 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **75.5C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	0.8 kg (18.2%)	85 %	4
Grain	pilsne	3.6 kg (81.8%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	40 g	60 min	4.5 %
Dry Hop	Hallertau Spalt Select	30 g	14 day(s)	3.4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
WLP039 - Nottingham Ale Yeast	Ale	Liquid	1000 ml	White Labs