

# Kolsch - piwoszarnia

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **26**
- SRM **6.3**
- Style **Kölsch**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.5 liter(s) / kg**
- Mash size **25.2 liter(s)**
- Total mash volume **30.8 liter(s)**

## Steps

- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **15 min**

## Mash step by step

- Heat up **25.2 liter(s)** of strike water to **55.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **64C**
- Keep mash **40 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **8.2 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński         | 3 kg (53.6%)   | 80 %  | 4   |
| Grain | Strzegom Monachijski typ II | 2 kg (35.7%)   | 79 %  | 22  |
| Grain | Weyermann - Carapils        | 0.6 kg (10.7%) | 78 %  | 4   |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Marynka | 10 g   | 60 min | 8 %        |
| Boil    | Fuggles | 50 g   | 30 min | 3.99 %     |
| Boil    | Marynka | 6 g    | 15 min | 8 %        |