

# Kolsch

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **26**
- SRM **3.3**
- Style **Kölsch**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.8 liter(s)**
- Total mash volume **22.9 liter(s)**

## Steps

- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **25 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **17.8 liter(s)** of strike water to **69.2C**
- Add grains
- Keep mash **45 min** at **63C**
- Keep mash **25 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **19 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.1 kg (80.4%)	80 %	4
Grain	Pszeniczny	0.6 kg (11.8%)	85 %	4
Grain	Golden Ale	0.4 kg (7.8%)	78 %	8

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	30 g	50 min	8 %
Boil	Perle	20 g	10 min	8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
s-33	Ale	Dry	11.5 g	---