

# kolsch

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **25**
- SRM **3.4**
- Style **Kölsch**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.9 liter(s)**
- Total mash volume **15.8 liter(s)**

## Steps

- Temp **52 C**, Time **10 min**
- Temp **63 C**, Time **45 min**
- Temp **72 C**, Time **25 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **11.9 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **45 min** at **63C**
- Keep mash **25 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.9 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount          | Yield | EBC |
|-------|----------------------|-----------------|-------|-----|
| Grain | Pilzneński           | 3.12 kg (78.8%) | 81 %  | 4   |
| Grain | Pszeniczny           | 0.6 kg (15.2%)  | 85 %  | 4   |
| Grain | Bestmalz Carmel Pils | 0.24 kg (6.1%)  | 75 %  | 5   |

## Hops

| Use for | Name        | Amount | Time   | Alpha acid |
|---------|-------------|--------|--------|------------|
| Boil    | Magnum      | 12 g   | 60 min | 13.5 %     |
| Boil    | Hersbrucker | 24 g   | 15 min | 3 %        |

## Yeasts

| Name            | Type | Form   | Amount    | Laboratory  |
|-----------------|------|--------|-----------|-------------|
| Wyeast - Kolsch | Ale  | Liquid | 128.57 ml | Wyeast Labs |