# chełmek kylsz 2

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **24**
- SRM **3.4**
- Style Kölsch

## **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 9.5 liter(s)
- Total mash volume 12.2 liter(s)

# **Steps**

- Temp 64 C, Time 45 min
  Temp 72 C, Time 15 min
- Temp **78 C**, Time **1 min**

# Mash step by step

- Heat up 9.5 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 15 min at 72C
- Keep mash 1 min at 78C
- Sparge using 8.4 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.5 kg <i>(92.6%)</i>	81 %	4
Grain	Pszeniczny	0.2 kg (7.4%)	85 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	11 %
Aroma (end of boil)	Tettnanger	30 g	5 min	2.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
lallemand koln	Ale	Dry	11.5 g	