

# Kolsch 11' TwójBrowar

- Gravity **11 BLG**
- ABV ---
- IBU **20**
- SRM **3.6**
- Style **Kölsch**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.9 liter(s)**
- Total mash volume **17.2 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 **12.9 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 **16.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (69.8%)	80 %	4
Grain	Pszeniczny	1.1 kg (25.6%)	85 %	4
Grain	Caramel/Crystal Malt - 10L	0.2 kg (4.7%)	75 %	20

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	10 g	60 min	13.5 %
Boil	Hersbrucker	25 g	15 min	3 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	80 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Fining	Whirllok T	2 g	Boil	5 min
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## Notes

- Do zacierania dodam łuska orkiszowa 250g  
*May 1, 2017, 1:51 PM*