

# Fränkisches Rotbier PK 2 schanzenbräu?

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **21**
- SRM **14.8**
- Style **Munich Dunkel**

## 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 **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **55 C**, Time **1 min**
- Temp **65 C**, Time **60 min**
- Temp **76 C**, Time **1 min**

## Mash step by step

- Heat up **14 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **1 min** at **55C**
- Keep mash **60 min** at **65C**
- Keep mash **1 min** at **76C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilsner Malz Best	3 kg (75%)	81 %	3
Grain	Melanoiden Malt	0.8 kg (20%)	80 %	70
Grain	Caraamber	0.1 kg (2.5%)	75 %	70
Grain	Carafa II Best	0.1 kg (2.5%)	65 %	1100

## Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Perle	1 g	120 min	9.7 %
Boil	Perle	10 g	60 min	9.7 %
Boil	Hallertau Spalt Select	20 g	20 min	5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Wyeast - 2206 Bavarian Lager	Lager	Liquid	50 ml	Wyeast Labs