

## Hefe Weizen #13

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **17**
- SRM **4.2**
- Style **Weizen/Weissbier**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **5 %/h**
- Boil size **24.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.4 liter(s) / kg**
- Mash size **17.3 liter(s)**
- Total mash volume **22.4 liter(s)**

### Steps

- Temp **44 C**, Time **20 min**
- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **17.3 liter(s)** of strike water to **47.5C**
- Add grains
- Keep mash **20 min** at **44C**
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **78C**
- Sparge using **12.1 liter(s)** of **76C** water or to achieve **24.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.3 kg (45.1%)	80 %	4
Grain	Strzegom Pszeniczny	2.5 kg (49%)	81 %	6
Grain	Płatki owsiane	0.3 kg (5.9%)	60 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Tradition	20 g	60 min	5 %
Aroma (end of boil)	Cascade PL	20 g	5 min	5.2 %
Aroma (end of boil)	Mandarina Bavaria	20 g	5 min	10 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Mauribrew Weiss Y1433	Wheat	Dry	12 g	AB Mauri

### Extras

Type	Name	Amount	Use for	Time
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Spice	Skórka pomarańczy sucha	50 g	Boil	15 min
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