

## Niemiecki rauchpils #2

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **37**
- SRM **4**
- Style **German Pilsner (Pils)**

### Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **90 min**
- Evaporation rate **15 %/h**
- Boil size **36.6 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **29.7 liter(s)**

### Steps

- Temp **63 C**, Time **30 min**
- Temp **65 C**, Time **30 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **0 min**

### Mash step by step

- Heat up **23.1 liter(s)** of strike water to **69.1C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **20.1 liter(s)** of **76C** water or to achieve **36.6 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński Viking	3.3 kg (50%)	81 %	4
Grain	Słód Wędzony Steinbach	3.3 kg (50%)	80 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	28 g	80 min	12.5 %
Boil	Hallertau Mittelfruh	20 g	15 min	6.1 %
Boil	Hallertau Mittelfruh	25 g	5 min	3.1 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	16 g	Fermentis