

Italian pils

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **36**
- SRM **2.7**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **13 liter(s)**
- Trub loss **5 %**
- Size with trub loss **13.7 liter(s)**
- Boil time **90 min**
- Evaporation rate **15 %/h**
- Boil size **19.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **11.9 liter(s)**
- Total mash volume **15.3 liter(s)**

Steps

- Temp **62 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 **11.9 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **65C**
- Keep mash **20 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **10.6 liter(s)** of **76C** water or to achieve **19.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Heidelberg	3.4 kg (100%)	80.5 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Puławski	15 g	60 min	8.9 %
Boil	Tettnanger	20 g	15 min	2.5 %
Boil	Hallertau Spalt Select	10 g	15 min	3.7 %
Boil	Hallertau Mittelfruh	10 g	15 min	3.1 %
Boil	Tettnanger	15 g	5 min	2.5 %
Boil	Hallertau Spalt Select	20 g	5 min	3.7 %
Boil	Hallertau Mittelfruh	10 g	5 min	3.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	11.5 g	Fermentis