

# PILSKI PILS '21

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- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **42**
- SRM **4.7**
- Style **German Pilsner (Pils)**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **4 %**
- Size with trub loss **20.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **24.6 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **20.3 liter(s)**

## Steps

- Temp **50 C**, Time **15 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **40 min**

## Mash step by step

- Heat up **15.8 liter(s)** of strike water to **54.3C**
- Add grains
- Keep mash **15 min** at **50C**
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **24.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3.5 kg (77.8%)	81 %	4
Grain	Carahell	0.5 kg (11.1%)	77 %	26
Grain	Weyermann - Carapils	0.25 kg (5.6%)	78 %	4
Grain	Strzegom Monachijski typ I	0.25 kg (5.6%)	79 %	16

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	12.7 %
Boil	Magnum	15 g	30 min	12.7 %
Aroma (end of boil)	Izabella	20 g	10 min	6.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	200 ml	Fermentis