

German Pils Pinta

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **36**
- SRM **4.3**
- Style **German Pilsner (Pils)**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **26.1 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.6 liter(s)**
- Total mash volume **20.8 liter(s)**

Steps

- Temp **50 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **15.6 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **10 min** at **50C**
- Keep mash **30 min** at **62C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **15.7 liter(s)** of **76C** water or to achieve **26.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.5 kg (86.5%)	80 %	4
Grain	Strzegom Monachijski typ I	0.4 kg (7.7%)	79 %	16
Grain	Strzegom Wiedeński	0.3 kg (5.8%)	79 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	9.2 %
Boil	Tradition	20 g	30 min	5.5 %
Boil	Tradition	20 g	10 min	5.5 %
Boil	Tradition	10 g	5 min	5.5 %
Whirlpool	Tradition	20 g	0 min	5.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Liquid	1200 ml	Fermentum Mobile