

# Polskie Jasne Pełne Ale

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **28**
- SRM **4.8**
- Style **Blonde Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.8 liter(s)**
- Total mash volume **21.6 liter(s)**

## Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **0 min**

## Mash step by step

- Heat up **16.8 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.5 kg (72.9%)	80 %	4
Grain	Strzegom Wiedeński	1 kg (20.8%)	79 %	10
Grain	Karmelowy Jasny 30EBC	0.3 kg (6.3%)	75 %	30

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	10 %
Boil	Marynka	15 g	15 min	10 %
Boil	Lublin (Lubelski)	10 g	15 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	2 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
s-04	Ale	Dry	23 g	---