

# Żniwiarz jasne

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **13**
- SRM **3.8**
- Style **Weizen/Weissbier**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **18.1 liter(s)**
- Total mash volume **23.3 liter(s)**

## Steps

- Temp **45 C**, Time **15 min**
- Temp **55 C**, Time **15 min**
- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **40 min**

## Mash step by step

- Heat up **18.1 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **15 min** at **55C**
- Keep mash **40 min** at **62C**
- Keep mash **40 min** at **72C**
- Sparge using **14.9 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Słód piznenski	1.55 kg (30%)	80 %	4
Grain	Słód pszeniczny Bestmalz	3.62 kg (70%)	82 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	32.35 g	60 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
WLP300 - Hefeweizen Ale Yeast	Wheat	Liquid	51.76 ml	White Labs

## Notes

- Fermentacja:  
Zadane do 19 C  
14 C -> 17 C  
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