

Polskie Jasne

- Gravity **11.7 BLG**
- ABV ---
- IBU **34**
- SRM **9.3**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

Steps

- Temp **63 C**, Time **20 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **12 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **20 min** at **63C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.7 kg (92.5%)	85 %	4
Grain	Karmelowy żytni Strzegom	0.3 kg (7.5%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	8.2 %
Boil	Lublin (Lubelski)	20 g	20 min	3.3 %
Boil	Lublin (Lubelski)	20 g	10 min	3.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Fermentis US-04	Lager	Dry	11.5 g	---

Extras

Type	Name	Amount	Use for	Time
Other	glukoza	120 g	Bottling	---