

Jasne Polskie

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **38**
- SRM **6.3**

Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **70 min**
- Evaporation rate **15 %/h**
- Boil size **13.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **6.4 liter(s)**
- Total mash volume **8.6 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 **6.4 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 **9.3 liter(s)** of **76C** water or to achieve **13.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	2 kg (93%)	80.5 %	2
Grain	Strzegom Karmel 150	0.15 kg (7%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	12.5 g	60 min	10 %
Boil	Lublin (Lubelski)	10 g	20 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	10 g	10 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-04	Ale	Dry	8 g	fermentis