jasne polskie 21.02

- Gravity 14.5 BLG
- ABV **6** %
- IBU **14**
- SRM **4.7**
- Style Old Ale

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20.4 liter(s)
- Total mash volume 27.2 liter(s)

Steps

- Temp **52 C**, Time **10 min** Temp **62 C**, Time **30 min** Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up 20.4 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 62C
- Keep mash 40 min at 72C
- Keep mash 15 min at 78C
- Sparge using 18.1 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	2.9 kg <i>(42.6%)</i>	82 %	4
Grain	Viking Pale Ale malt	3.6 kg <i>(52.9%)</i>	80 %	5
Grain	Karmelowy Jasny 30EBC	0.3 kg (4.4%)	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	10 %
Whirlpool	Lublin (Lubelski)	15 g	5 min	4 %
Whirlpool	Marynka	15 g	5 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Culture	1200 g	Safale

Extras

Туре	Name	Amount	Use for	Time
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Water Agent	l chlorek wapnia	140	l Mash	l 90 min
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