Maczao Pejl Ejl

- Gravity 12.4 BLG
- ABV **5** %
- IBU **38**
- SRM **5.1**
- Style American Pale Ale

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 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp **48 C**, Time **10 min** Temp **67 C**, Time **30 min**
- Temp **72 C**, Time **4 min**

Mash step by step

- Heat up 16.5 liter(s) of strike water to 52.7C
- · Add grains
- Keep mash 10 min at 48C
- Keep mash 30 min at 67C
- Keep mash 4 min at 72C
- Sparge using 16.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(90.9%)</i>	80 %	5
Grain	Karmelowy Jasny 30EBC	0.5 kg <i>(9.1%)</i>	75 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	35 g	60 min	4.5 %
Boil	Marynka	15 g	60 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	45 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
US 04	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Gips	3 g	Mash	

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