Kmicic

- Gravity 12.4 BLG
- ABV ----
- IBU **39**
- SRM **4.5**

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

Steps

- Temp 55 C, Time 5 min
 Temp 65 C, Time 25 min
 Temp 72 C, Time 25 min
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 13.5 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 5 min at 55C
- Keep mash 25 min at 65C
- Keep mash 25 min at 72C
- Keep mash 1 min at 78C
- Sparge using 16.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) Bel	4.5 kg <i>(100%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	60 min	10 %
Boil	Marynka	10 g	30 min	10 %
Boil	Marynka	30 g	15 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	200 ml	Fermentum Mobile