# Takie se

- Gravity 15.7 BLG
- ABV 6.6 %
- IBU **32**
- SRM **9.1**
- Style Specialty Beer

## **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 20 %/h
- Boil size 29 liter(s)

# **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.4 liter(s) / kg
- Mash size 21.1 liter(s)
- Total mash volume 27.3 liter(s)

# **Steps**

- Temp **67 C**, Time **50 min** Temp **72 C**, Time **10 min**
- Temp **75 C**, Time **5 min**

# Mash step by step

- Heat up 21.1 liter(s) of strike water to 73.9C
- Add grains
- Keep mash 50 min at 67C
- Keep mash 10 min at 72C
- Keep mash 5 min at 75C
- Sparge using 14.1 liter(s) of 76C water or to achieve 29 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	5 kg (80.6%)	80 %	5
Grain	Monachijski typ II	0.5 kg (8.1%)	79 %	22
Grain	Pszeniczny	0.5 kg (8.1%)	82 %	4
Grain	karmell-aromamalz	0.2 kg <i>(3.2%)</i>	75 %	300

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	30 g	50 min	10.5 %
Aroma (end of boil)	Saaz (Czech Republic)	30 g	10 min	4.5 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Fermentis Safbrew BE-256	Ale	Slant	300 ml	

#### **Extras**

Туре	Name	Amount	Use for	Time
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Fining	Mech irlandzki	5 g	Boil	10 min
Flavor	Skórka z cytryny	20 g	Boil	10 min
Flavor	Skórka z pomarańczy	10 g	Boil	10 min